1987 Accident Facts

Iowa Department of Transportation

Foreward

We appreciate the response to the survey last year; as a result, a few changes have been made in this year's book.

National data has been added again this year. Safety belt usage information has been expanded. Environmental conditions have been included in the accident summary. The motorcycle vehicle page has been expanded. All terrain vehicles (ATVs) have been included on a separate vehicle page.

The accident summary and vehicle pages emphasize the number of accidents. Percentages are based on known information; unknown cases are also noted. Percentages may not equal 100 due to rounding.

Accident rates for county information have been changed to show the rate per 100 thousand vehicle miles traveled. This will allow comparisons with the statewide rate. The number of registrations per county are included; if you want to compare accidents rates by county with prior years, compare the number of accidents per 10,000 registrations.

Many fact book users have requested that the book be published earlier in the year. Every effort is made to complete the book as soon as possible. Efforts are taken to ensure that the accident statistics file is complete and accurate before the production of the fact book begins. Unfortunately, this year was later than normal; we apologize for any inconvenience this may cause you.

Iowa Department
of Transportation
Motor Vehicle Division
Office of Driver Services
Lucas State Office Building
Des Moines, Iowa 50319
(515) 281-3586

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Acknowledgement

The Iowa Department of Transportation wishes to express appreciation to all law enforcement agencies and officers for their work in accident investigation which made this report possible. All information concerning Iowa traffic accidents was taken from report forms provided by investigating officers and drivers involved in accidents.

We hope this information will be of value in analyzing the causes of traffic accidents in Iowa, and that it emphasizes the need for concerned, well-prepared drivers and a safe driving environment.

Prepared by
Driver Safety & Improvement Section
Office of Driver Services

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Glossary

Traffic accident: Iowa law requires motorists to report any accident which involves one or more vehicles and results in death, personal injury or property damage of at least $500. The information in this report, however, is based only on those accidents which occurred on public roads.

Fatal accident: Accident in which one or more persons are killed.

Personal injury accident: Accident in which no one is killed, but one or more persons are injured.

Property damage accident: Accident in which no one is killed or injured, but there is property damage of $500 or more.

Fatality: Person killed as a result of a traffic accident.

Alcohol-related: An accident where either a driver, bicyclist or pedestrian is listed on the motor vehicle accident report as drinking prior to the accident.

Vehicle miles: Iowa vehicle-mile figures are the estimated total number of miles traveled on Iowa primary and secondary highways, urban and rural roads, and streets by all vehicles during a given period.

Fatality rate: Number of fatalities per 100 million vehicle miles.

Accident rate: Number of accidents per 100 million vehicle miles, unless otherwise stated.

Occupant restraint: Safety belt, child safety seat or passive restraints.

SUMMARY

General

1987: A look at Iowa

Accidents by month	Fatal Accidents by month		Fatalities
63,458		443	491
7,094	Dec.	37	40
6,000	Nov.	38	42
5,990	Oct.	51	52
5,105	Sept.	40	42
5,415	Aug.	57	64
5,163	July	41	48
5,105	June	41	45
5,463	May	40	46
4,704	April	28	34
4,334	March	19	19
3,793	Feb.	21	23
5,292	Jan.	30	36

In Iowa there was . . .

1 accident every 8.3 minutes

1 driver out of 18.1 involved in an accident

1.3 lives lost per day because of traffic accidents. (A total of 491 lives were lost in 1987.)

74.2 persons injured per day because of traffic accidents. (A total of 27,074 persons were injured in 1987.)

In Iowa, motor vehicle accidents increased 2.9 percent in 1987 from the 61,683 accidents recorded in 1986. Fatalities increased 11.3 percent in 1987 from 441 fatalities reported in 1986.

Nationally there were:

41,435* fatal accidents

46,386* fatalities

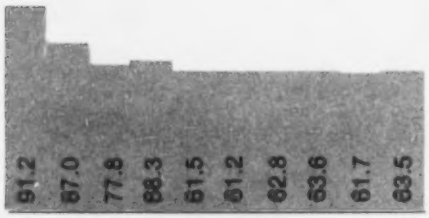
Fatalities increased 0.6 percent in 1987 from the 46,087 fatalities reported in 1986.

*Preliminary

Ten-Year Iowa Traffic Trends 1978-1987

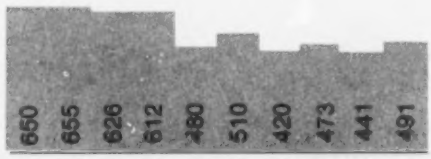
Accidents

Thousands of accidents
Down 30.4% in 10 years



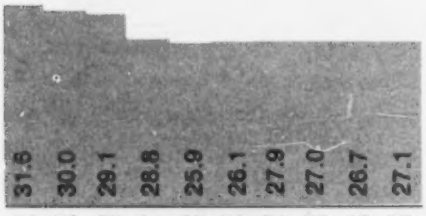
Deaths

Number of deaths
Down 24.5% in 10 years



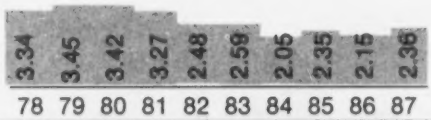
Injuries

Thousands of injuries
Down 14.2% in 10 years



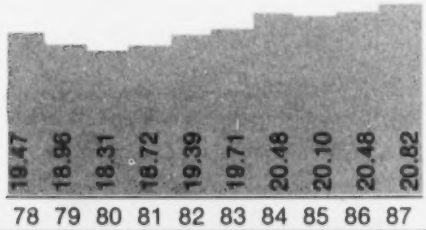
Mileage Death Rate

Death per 100 million vehicle miles
Down 29.3% in 10 years



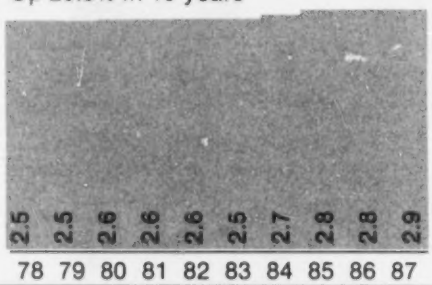
Vehicle Miles Traveled

Billions of miles
Up 11.2% in 10 years



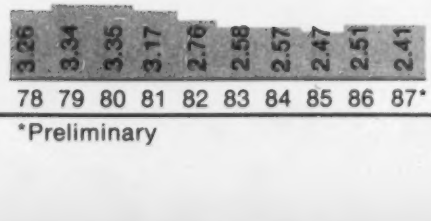
Motor Vehicle Registrations

Millions of vehicles
Up 20.8% in 10 years



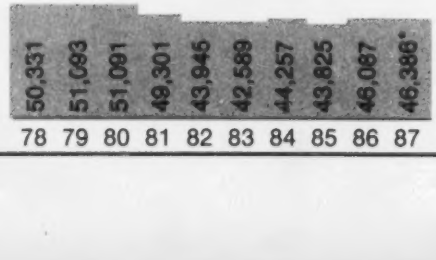
National Fatality Rate

Deaths per 100 million vehicle miles
Down 26.1% in 10 years



National Fatalities

Number of deaths
Down 7.8% in 10 years

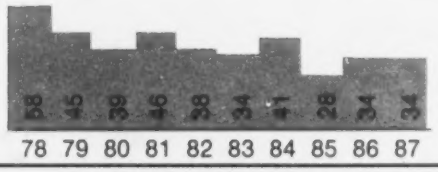


*Preliminary

Ten-Year Iowa Traffic Trends
1978-1987

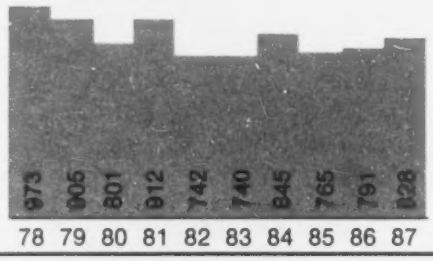
Pedestrian Deaths

Number of deaths
Down 41.4% in 10 years



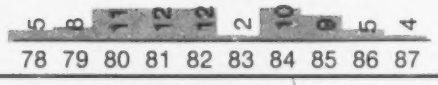
Pedestrian Injuries

Number of injuries
Down 14.9% in 10 years



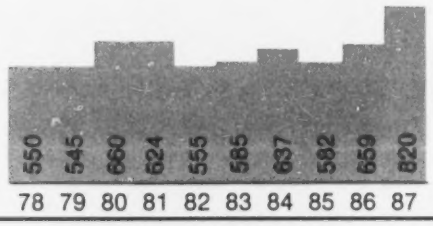
Bicyclist Deaths

Number of deaths



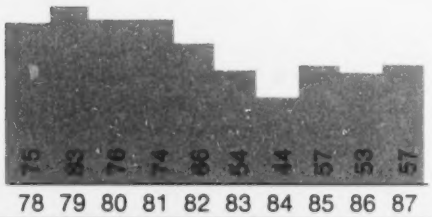
Bicyclist Injuries

Number of injuries
Up 49.1% in 10 years



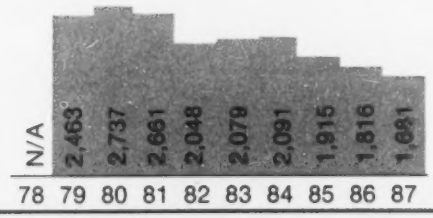
Motorcyclist Deaths

Number of deaths
Down 24.0% in 10 years



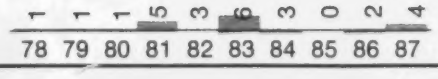
Motorcyclist Injuries

Number of injuries
Down 31.7% in 9 years



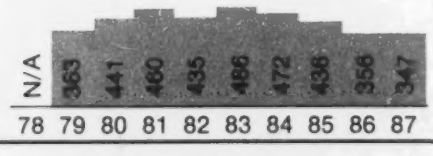
Moped Deaths

Number of deaths



Moped Injuries

Number of injuries
Down 4.4% in 9 years



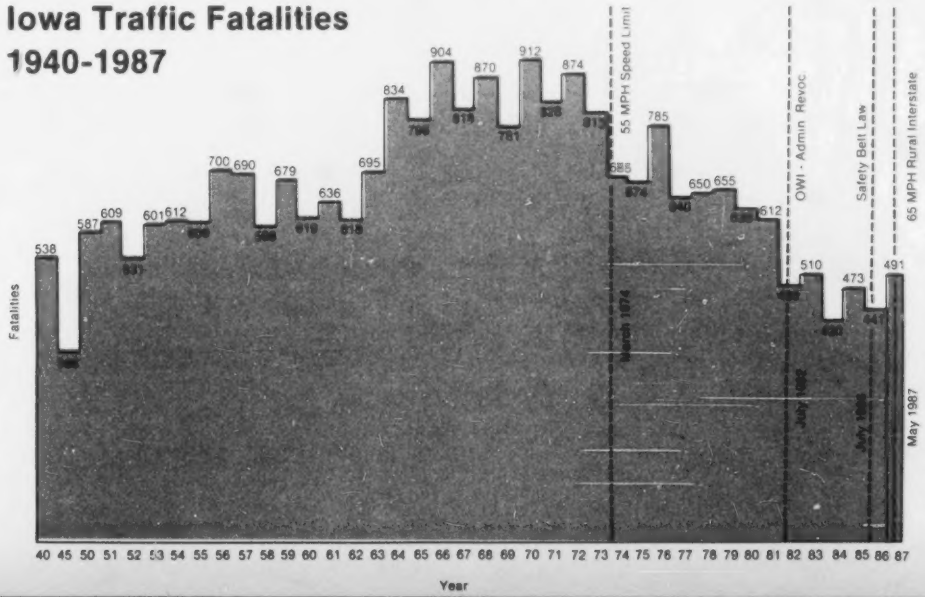
SUMMARY

Iowa Trends 1970-1987

Year	All Acc.	Fatalities	Persons Injured	Fatal Acc.	Injury Acc.	Vehicle Miles (Million)	Fatality Rate[2]	Fatal Acc. Rate[2]	All Acc. Rate[2]	Licensed Drivers	Motor Vehicle Registrations
1970	87,808	912	33,101	752	22,339	16,053	5.68	4.68	547.0	1,678,262	1,839,530
1971	87,100	828	31,599	681	21,411	16,582	4.99	4.11	525.3	1,704,137	1,916,850
1972	91,918	875	35,484	722	23,814	17,127	5.11	4.22	536.7	1,752,595	2,012,245
1973	96,620	813	35,059	682	24,683	17,691	4.60	3.86	546.2	1,787,169	2,095,330
1974	91,117	685	31,741	583	22,851	17,250	3.97	3.38	528.2	1,846,870	2,178,530
1975	94,825	674	32,802	578	23,082	17,853	3.78	3.24	531.1	1,865,754	2,250,417
1976[1]	98,000	785	34,096	663	24,218	18,441	4.26	3.60	531.4	1,959,150	2,300,721
1977	87,771	640	32,289	561	22,358	19,028	3.36	2.95	461.3	2,085,647	2,356,327
1978	91,213	650	31,631	563	21,651	19,467	3.34	2.89	468.6	2,398,656	2,474,790[3]
1979	86,969	655[4]	29,972	566[4]	20,727	18,959	3.45	2.99	458.7	2,419,501	2,540,547[3]
1980	77,800	626	29,100	541	20,280	18,305	3.42	2.96	425.0	2,408,793	2,554,379[3]
1981	68,263	612	28,776	529	19,945	18,715	3.27	2.83	364.8	2,472,614	2,592,604[3]
1982	61,549	480	25,905	431	17,933	19,391	2.48[6]	2.22	317.4	1,977,911[5]	2,577,994[3]
1983	61,190	510	26,050	434	18,049	19,712	2.59	2.20	310.4	1,998,982	2,542,267[3]
1984	62,818	420	27,868	376	19,378	20,481	2.05[6]	1.84	306.7	2,000,085	2,655,529[3]
1985	63,624	473	26,988	415	18,752	20,104	2.35[6]	2.06	316.5	1,970,272	2,796,172[3]
1986	61,683	441	26,669	388	18,522	20,481	2.15	1.89	301.2	1,949,108	2,841,138[3]
1987	63,458	491	27,074	443	18,695	20,824	2.36	2.13	304.7	1,897,495	2,892,994[3]

1 All accident figures for 1976 are estimated except for figures on fatal accidents.
2 Per 100 million vehicle miles traveled.
3 Revised by DOT Office of Driver Services to exclude trailers, travel trailers, miscellaneous vehicles, and trucks licensed to operate in more than one state. This does include official vehicles.
4 Beginning with 1979, figures for fatalities and fatal accidents are based on persons who died within 30 days of the traffic accident. Previous years' totals included persons who died within one year of the accident.
5 Drop in number of licensed drivers is due to more accurate method of computation.

Iowa Traffic Fatalities 1940-1987



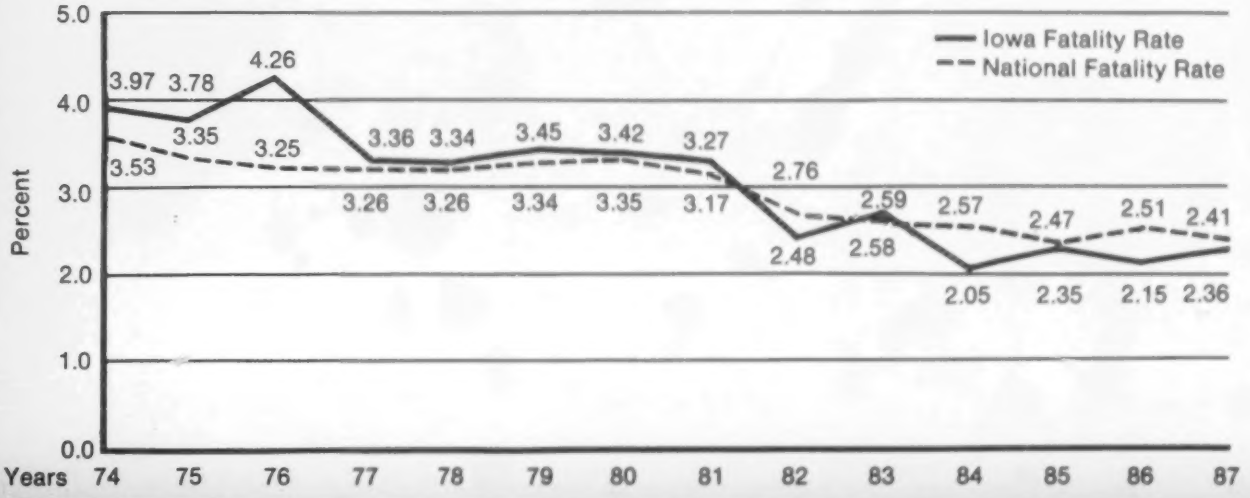
SUMMARY

National Trends 1970-1987

Year	All Acc.[1]	Fatalities	Persons Injured[2]	Fatal Acc.	Vehicle Miles (Billion)[3]	Fatality Rate[4]	Fatal Acc. Rate[4]	All Acc. Rate[4]	Licensed Drivers[5,6]	Motor Vehicle Registrations[5,6]
1970	16,400,000	52,627	2,961,000	NA	1,100	4.74	NA	1,477.5	111,542,787	111,242,295
1971	17,000,000	52,542	4,044,000	NA	1,179	4.46	NA	1,441.9	114,425,900	116,330,037
1972	16,600,000	54,589	3,781,000	NA	1,260	4.33	NA	1,317.5	118,414,474	122,556,550
1973	15,600,000	54,052	2,960,000	NA	1,313	4.12	NA	1,188.1	121,545,736	130,024,945
1974	15,600,000	45,196	4,075,000	NA	1,281	3.53	NA	1,217.8	125,426,582	134,899,955
1975	16,500,000	44,525	4,225,000	39,161	1,328	3.35	2.95	1,242.5	129,790,666	137,912,779
1976	16,800,000	45,523	4,107,000	39,747	1,402	3.25	2.84	1,198.3	134,035,641	143,476,236
1977	17,600,000	47,878	4,392,000	42,210	1,467	3.26	2.88	1,199.7	138,120,893	146,973,718
1978	18,300,000	50,331	3,827,000	44,433	1,545	3.26	2.88	1,184.5	140,843,907	153,282,476
1979	18,100,000	51,093	4,248,000	45,223	1,529	3.34	2.96	1,184.4	143,283,995	157,291,431
1980	17,900,000	51,091	3,694,000	45,284	1,527[5]	3.35[5]	2.97[5]	1,171.2[5]	145,295,036	161,490,159
1981	18,000,000	49,301	5,019,000	44,000	1,553[5]	3.17[5]	2.83[5]	1,159.0[5]	147,075,169	164,287,643
1982	18,100,000	43,945	NA	39,092	1,595[5]	2.76[5]	2.45[5]	1,134.8[5]	150,309,519	165,203,000
1983	18,300,000	42,589	NA	37,976	1,653[5]	2.58[5]	2.30[5]	1,107.1[5]	154,221,003	169,395,000
1984	18,800,000	44,257	NA	39,631[5]	1,720[5]	2.57[5]	2.30	1,093.0[5]	155,391,000	171,932,148
1985	19,300,000	43,825[8]	NA	39,168	1,774[5]	2.47[5]	2.21[5]	1,087.9[5]	158,224,000	175,709,000
1986	17,700,000	46,087[5,8]	NA	41,090[5]	1,835[5]	2.51[5]	2.24[5]	964.6[5]	159,487,000	181,453,661
1987	20,800,000	46,386[7,8]	NA	41,435[7]	1,923[7]	2.41[7]	2.15[7]	1,081.6[7]	161,975,000[7]	186,137,000[7]

Figures obtained from U.S. Department of Transportation, National Highway Traffic Safety Administration, unless otherwise noted. All rates calculated by the Office of Driver Services.

1 Figures from National Safety Council.
2 National Health Interview System, National Center for Health Statistics.
3 Federal Highway Administration, Highway Statical Division
4 Per 100 million vehicle miles traveled.
5 Updated/revised.
6 Estimated.
7 Preliminary.
8 Counting only fatalities who died within 30 days after date of accident.



Who Was Involved

Drivers/Age

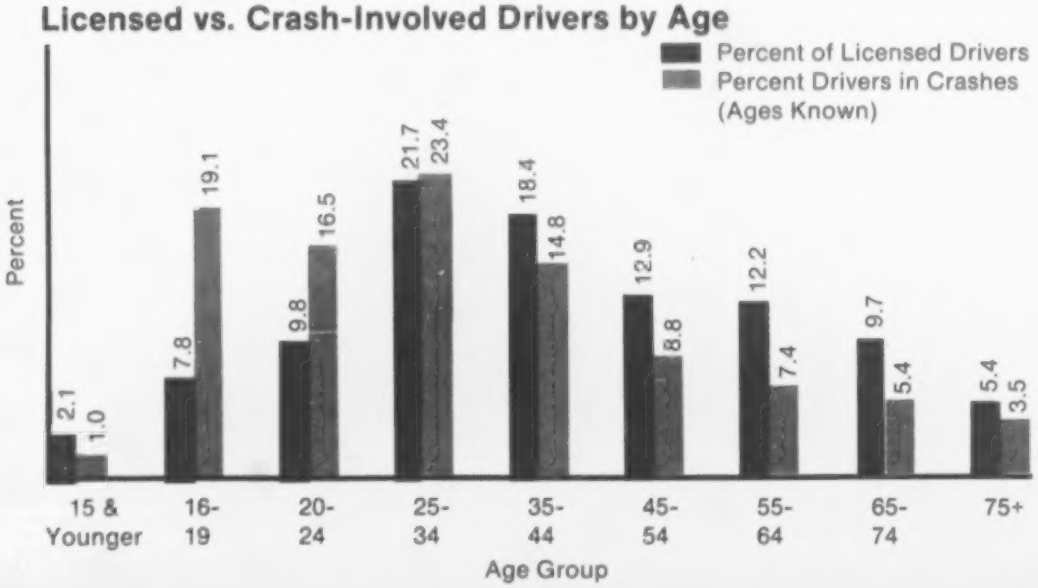
Age	Licensed Drivers[1]	Drivers Involved in Accidents	Drivers Involved in Fatal Acc.	Acc. Rate[2 3]	Fatal Acc. Rate[2 3]
15 & younger	39,573	1,000	13	252.7	3.3
16	42,423	4,937	20	1,163.8	4.7
17	35,825	5,072	21	1,415.8	5.9
18	35,569	4,622	25	1,299.4	7.0
19	34,125	4,069	24	1,192.4	7.0
20	35,541	3,637	23	1,023.3	6.5
21	36,796	3,289	27	893.8	7.3
22	35,376	3,254	18	919.8	5.1
23	37,809	3,158	25	835.3	6.6
24	39,698	2,839	19	715.1	4.8
25-34	412,208	22,843	170	554.2	4.1
35-44	350,083	14,509	98	414.4	2.8
45-54	243,856	8,625	54	353.7	2.2
55-64	231,269	7,244	41	313.2	1.8
65-74	184,507	5,323	46	288.5	2.5
75 & older	102,837	3,403	35	330.9	3.4
Total (age known)	1,897,495	97,824	659		
Age unknown		7,180	2		
GRAND TOTAL	1,897,495	105,004	661	553.4	3.5

[1] Includes instruction permits and school permits (permits to drive to and from school)

[2] Accidents/fatal accidents per 10,000 licensed drivers

[3] Accident rates can be converted to percentage figures by moving the decimal two spaces to the left. For example - for age 17 the accident rate is 1,415.8 per 10,000 licensed drivers. As a percentage, the accident rate is 14.16. This means 14 percent of all 17-year-olds licensed in Iowa were involved in accidents during 1987.

Licensed vs. Crash-Involved Drivers by Age



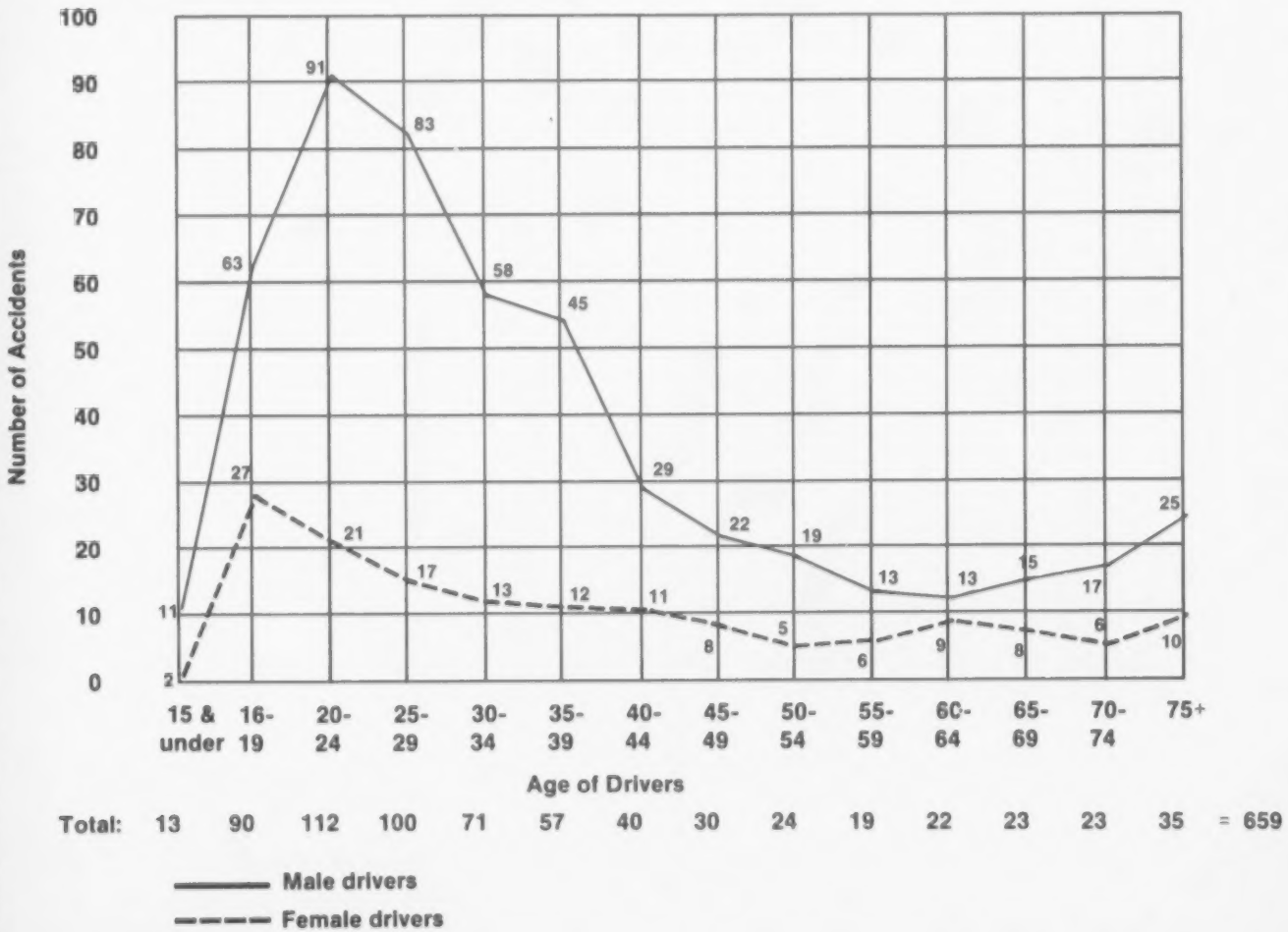
Who Was Involved

Drivers/Sex

Sex	Licensed Drivers[1]	Drivers Involved In Accidents		Driver Involved In Fatal Acc.		Acc. Rate[2 3]	Fatal Acc. Rate[2 3]
Male	922,907	70,593	(69.8)	504	(76.5)	764.9	5.5
Female	974,588	30,535	(30.2)	155	(23.5)	313.3	1.6
Total (sex known)	1,897,495	101,128		659			
Sex Unknown		3,876		2			
GRAND TOTAL	1,897,495	105,004		661		553.4	3.5

[1] Includes instruction permits and school permits (permits to drive to and from school)
[2] Accidents/fatal accidents per 10,000 licensed drivers
[3] Accident rates can be converted to percentage figures by moving the decimal two spaces to the left.

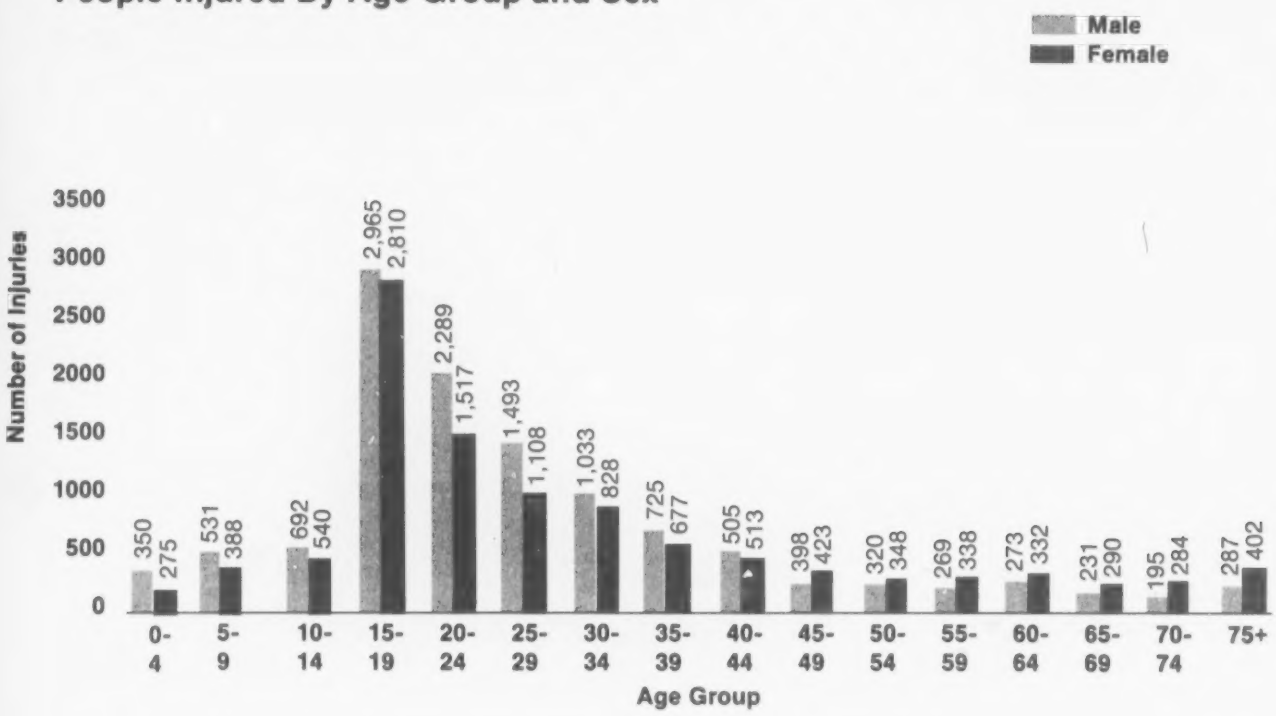
Fatal Accidents



Who Was Involved

Injured/Age

People Injured By Age Group and Sex

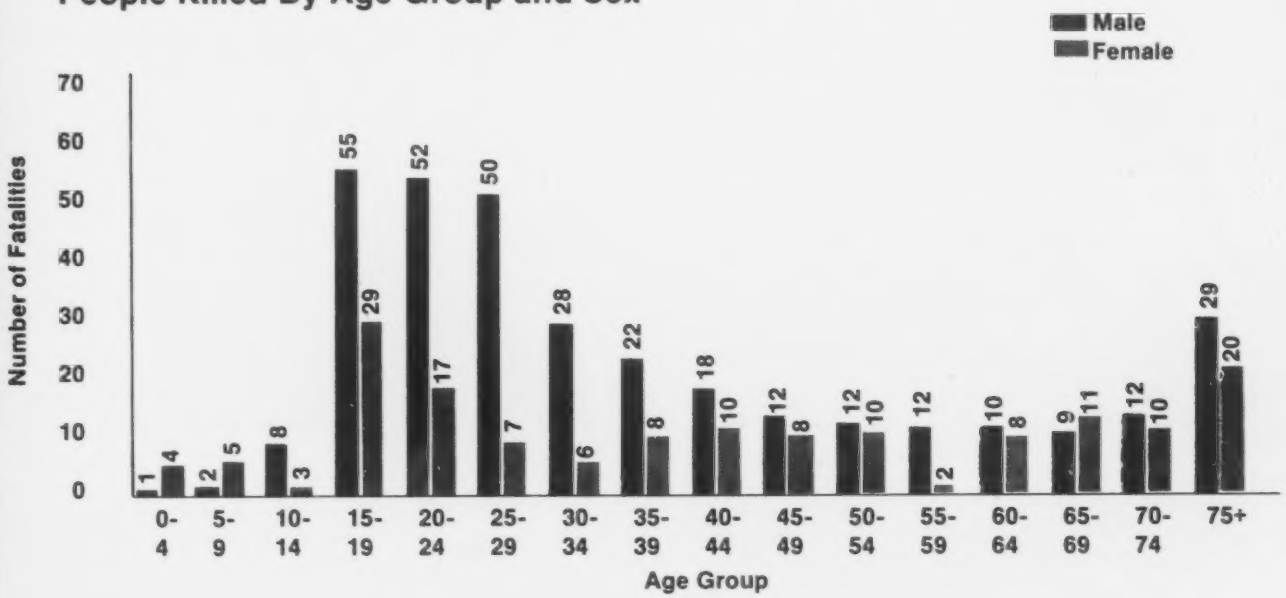


	Injured			
Age Group	Male	Female	Unknown	Total
0- 4	350	275	40	665
5- 9	531	388	82	1,001
10-14	692	540	94	1,326
15-19	2,965	2,810	459	6,234
20-24	2,289	1,517	303	4,109
25-29	1,493	1,108	267	2,868
30-34	1,033	828	196	2,057
35-39	725	677	159	1,561
40-44	505	513	109	1,127
45-49	398	423	93	914
50-54	320	348	74	742
55-59	269	338	82	689
60-64	273	332	54	659
65-69	231	290	49	570
70-74	195	284	34	513
75+	287	402	34	723
Not Stated	365	487	464	1,316
Grand Total	12,921	11,560	2,593	27,074

Who Was Involved

Fatalities

People Killed By Age Group and Sex



	Fatalities		
Age Group	Male	Female	Total
0- 4	1	4	5
5- 9	2	5	7
10-14	8	3	11
15-19	55	29	84
20-24	52	17	69
25-29	50	7	57
30-34	28	6	34
35-39	22	8	30
40-44	18	10	28
45-49	12	8	20
50-54	12	10	22
55-59	12	2	14
60-64	10	8	18
65-69	9	11	20
70-74	12	10	22
75+	29	20	49
Subtotal	332	158	490
Age Unknown	1		1
Grand Total	333	158	491

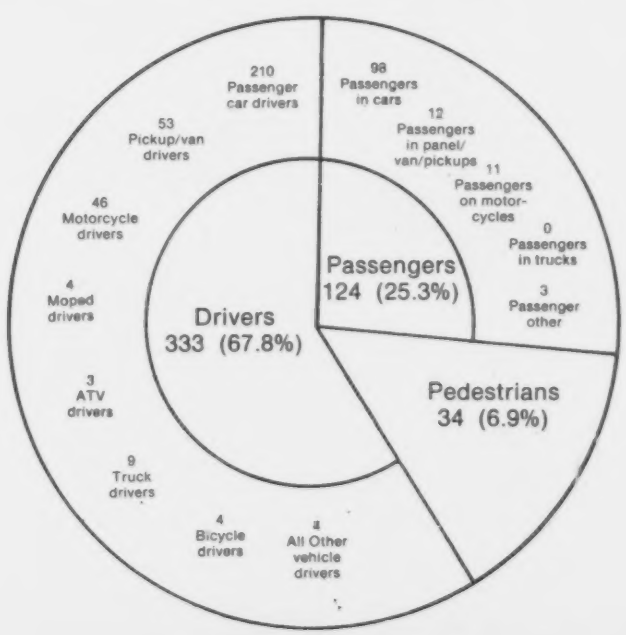
Who Was Involved

Vehicle Type

People Killed and Injured in Various Vehicle Types

Vehicle Type	Fatalities	Severe Injuries	Minor Injuries	Total
Automobile	308	2,101	17,083	19,492
Automobile/pickup with trailer or camper	3	22	110	135
Bus	0	1	39	40
School bus	0	4	48	52
Bicycle	4	103	674	781
Moped	4	68	279	351
Motorcycle	57	469	1,212	1,738
Farm vehicle	3	10	31	44
Motor home	1	1	5	7
Panel/van/pickup	65	469	2,865	3,399
Straight truck	1	25	131	157
Tow/maintenance/ construction vehicle	0	3	33	36
Truck tractor	0	5	19	24
Truck tractor with trailer	8	45	233	286
ATV	3	9	24	36
Other/unknown	0	30	95	125
Total	457	3,365	22,881	26,703

Drivers, Passengers and Pedestrians Killed in 1987



Who Was Involved

Pedestrians

Alcohol-Related Pedestrian Accidents:

	Fatal Acc.		Injury Acc.	
	No.	%	No.	%
Pedestrian (only) drinking	1	2.9	31	3.9
Driver (only) drinking	4	11.8	25	3.1
Pedestrian and driver drinking	1	2.9	3	0.4
No alcohol involvement	27	79.4	728	91.2
Unknown	1	2.9	11	1.4
Total	34		798	

Fatalities:

Age	Killed	%	Injured	%
0-4	0	0.0	81	9.8
5-9	4	11.8	186	22.5
10-14	1	2.9	113	13.6
15-19	1	2.9	70	8.5
20-24	0	0.0	50	6.0
25-44	6	17.6	148	17.9
45-64	8	23.5	63	7.6
65+	13	38.2	78	9.4
Not stated	1	2.9	39	4.7
Total	34		828	

Of all pedestrian fatalities, 50.0% were persons under 10 or over 64 years of age.

All Pedestrian Accidents:

Pedestrian Action	Killed	Injured
Crossing against signal	3	28
Crossing, not at crosswalk	12	117
Walking, improper position on roadway	5	41
Soliciting rides on road	0	1
Walking with traffic	1	24
Walking against traffic	0	4
Crossing with signal or in crosswalk	3	102
Ran onto roadway or into road from between parked cars	2	208
Directing traffic	0	5
Playing	1	35
Lying or sitting on roadway	0	7
Pushing, working on vehicle	2	16
Getting on or off vehicle	1	34
Maintenance/construction project	1	10
Walking, off roadway	2	26
Unknown	1	170
Total	34	828

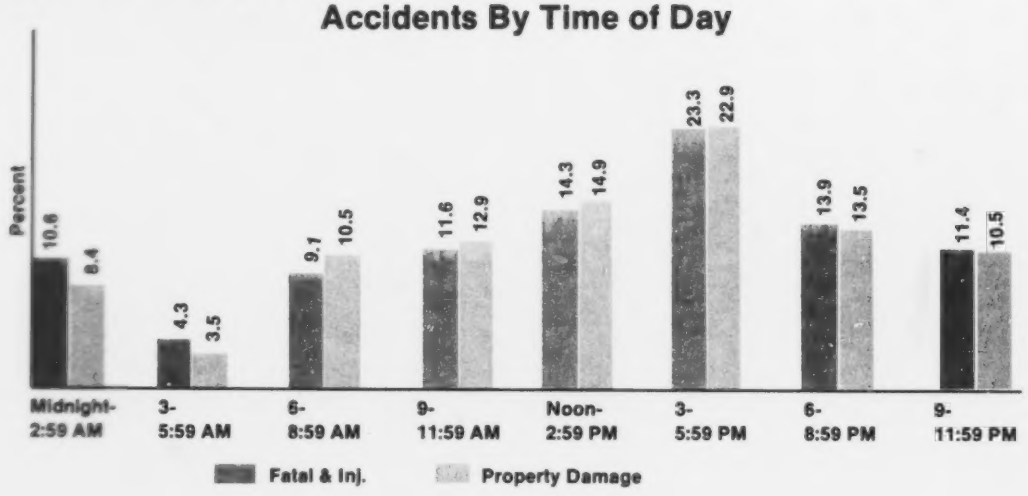
Driver Action/ Contributing Circum.*	Fatal Acc.	Injury Acc.
Ran traffic control	0	9
Improper passing	0	0
Left of center, not passing	0	1
Failure to yield	3	93
Speeding	3	15
Improper turn	0	1
Improper lane change	0	0
Following too close	0	2
Disregarded warning signal	0	1
Reckless driving	2	6
Improper backing	0	9
Failure to control	1	34
Headlights not on	0	3
Driver physical condition	1	26
Driver drinking	5	28
Inattentive/distracted	2	40
Confused/inexperienced	4	20
Vision obscured	10	150
Vehicle defect	0	0
Vehicle overloaded/oversized	0	2
Other	2	65

Note: Total percent may not equal 100 due to rounding.

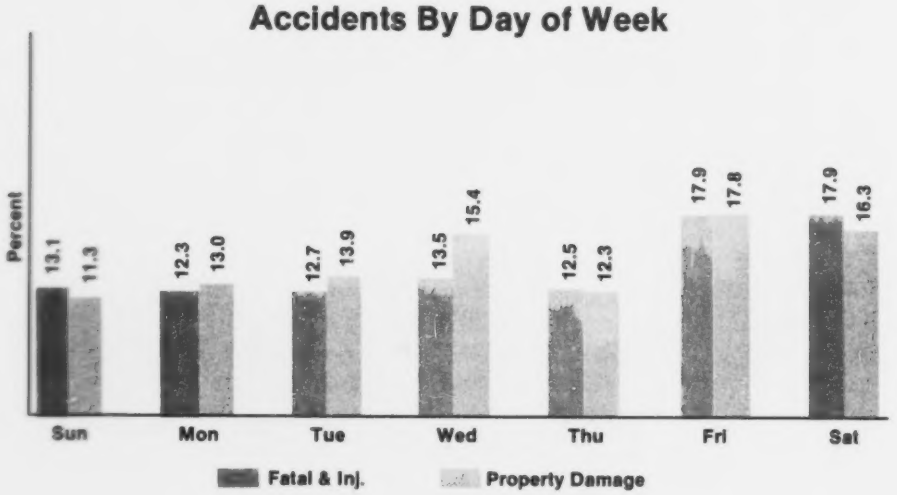
*0-2 actions/circumstances were listed for each driver.

When Crashes Happen

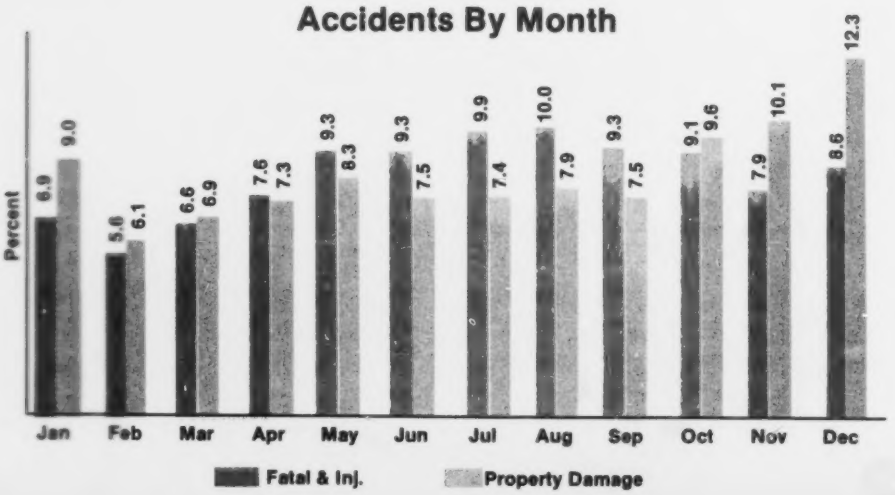
Accidents By Time of Day



Accidents By Day of Week



Accidents By Month



When Crashes Happen

1987 Crashes By Time of Day and Day of Week

Hour Beginning	Total Crashes	Fatal Crashes	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
			All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal	All	Fatal
Midnight-2:59 AM	5,742	77	404	9	516	4	546	7	646	11	696	12	1,536	21	1,398	13
3:00 AM-5:59 AM	2,378	34	250	5	246	3	232	3	293	4	324	5	505	8	528	6
6:00 AM-8:59 AM	6,407	36	1,019	5	1,108	0	1,220	7	976	7	1,080	10	596	5	408	2
9:00 AM-11:59 AM	7,916	40	1,082	4	1,127	4	1,193	8	995	4	1,205	5	1,482	8	832	7
Noon-2:59 PM	9,330	41	1,329	5	1,320	6	1,401	1	1,097	6	1,664	7	1,482	9	1,037	7
3:00 PM-5:59 PM	14,606	74	2,049	12	2,262	15	2,448	6	1,889	6	2,809	12	1,798	14	1,351	9
6:00 PM-8:59 PM	8,619	68	1,032	5	1,120	13	1,268	7	1,034	8	1,672	16	1,432	5	1,061	14
9:00 PM-11:59 PM	6,816	64	763	2	679	4	855	9	726	12	1,602	10	1,516	19	675	8
Unknown	1,644	9	208	1	211	0	255	0	198	1	251	2	290	2	231	3
Total	63,458	443	8,136	48	8,589	49	9,418	48	7,854	59	11,303	79	10,637	91	7,521	69

1987 Crashes By Month

	Fatal Crashes	Injury Crashes	Property Damage Crashes	Total Crashes
January	30	1,283	3,979	5,292
February	21	1,047	2,725	3,793
March	19	1,240	3,075	4,334
April	28	1,420	3,256	4,704
May	40	1,739	3,684	5,463
June	41	1,730	3,334	5,105
July	41	1,861	3,261	5,163
August	57	1,848	3,510	5,415
September	40	1,741	3,324	5,105
October	51	1,699	4,240	5,990
November	38	1,480	4,482	6,000
December	37	1,607	5,450	7,094
Total	443	18,695	44,320	63,458

When Fatalities Happened

Number of Statewide Fatalities by Date and Month

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1	2*	1	0	1	0	1	1	1	2	1	2	1	13
2	1*	1	0	1	1	1	0	1	0	0	1	1	8
3	0*	0	2	0	4	1	3*	6	1	3	0	0	20
4	0*	0	0	1	0	2	5*	3	1	2	0	2	16
5	0	1	1	1	0	4	2*	2	1*	0	1	1	14
6	1	1	0	0	1	6	0	4	3*	0	2	1	19
7	1	1	2	0	2	4	0	2	0*	2	1	2	17
8	3	1	1	0	3	2	0	3	1	2	1	0	17
9	2	0	0	0	3	1	2	4	1	1	2	1	17
10	0	0	1	0	3	1	0	1	1	2	2	3	14
11	0	0	0	3	0	2	3	3	1	0	2	2	16
12	2	2	0	1	2	1	0	1	5	0	2	4	20
13	3	2	0	2	1	2	0	0	0	2	2	1	15
14	1	1	0	2	0	5	2	1	1	2	1	0	16
15	1	2	2	0	0	1	2	7	2	1	1	0	19
16	1	0	3	4	2	0	0	4	1	1	1	1	18
17	1	0	0	1	3	2	2	2	1	0	0	1	13
18	0	1	1	7	2	3	1	1	0	3	3	3	25
19	0	1	0	2	0	1	5	0	1	3	1	0	14
20	2	2	0	1	0	1	0	1	4	2	4	1	18
21	0	1	1	0	2	0	2	2	2	4	1	1	16
22	0	2	0	0	5	0	1	2	1	0	0	1	12
23	0	1	1	0	5*	0	2	0	1	1	1	1	13
24	3	0	0	4	2*	0	3	1	1	4	0	1	19
25	1	0	1	1	0*	3	4	3	3	4	2	2*	24
26	0	0	0	0	0	1	1	2	0	2	0*	1*	7
27	1	2	1	0	2	0	2	0	2	3	1*	0*	20
28	0	0	1	0	0	0	2	3	1	1	6*	1	15
29	1		0	1	2	0	0	1	2	2	0*	1	10
30	2		1	1	0	0	1	1	2	3	2	2	15
31	2		0		1		2	2		1		4	11
Total	36	23	19	34	46	45	48	64	42	52	42	40	491

* *Indicates a holiday.*

By Month and Day of Week

	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Total
January	1	2	13	2	7	6	5	36
February	6	2	0	1	4	7	3	23
March	3	5	3	2	1	1	4	19
April	4	3	2	2	6	5	12	34
May	13	2	2	4	4	10	11	46
June	9	4	2	4	10	7	9	45
July	6	2	6	4	5	10	13	46
August	10	12	10	5	5	7	15	64
September	9	4	8	5	4	5	7	42
October	9	5	7	9	6	6	10	52
November	4	7	2	7	4	9	9	42
December	3	4	3	6	9	9	6	40
Totals	79	52	58	51	65	82	104	491

When Holiday Fatalities Happened

1962-1987

Holiday Traffic Fatalities
Iowa, 1962-87

In 1987, for the holidays described in the table below, the average number of deaths per day was 1.8. The average number of deaths per day for all weekends in 1987 was 1.8.

Note: Holiday periods include the number of full days shown in parentheses. Fatalities occurring from 6 p.m. to midnight on the previous day are also included. Regular weekend periods are from 6 p.m. Friday to midnight Sunday.

Beginning with 1981, the number of days included in a holiday period has been standardized as follows:

- 1 day if holiday falls on Wednesday
- 3 days if holiday falls on Friday through Monday
- 4 days if holiday falls on Tuesday or Thursday

Year	New Year's Day	Memorial Day	Fourth of July	Labor Day	Thanksgiving Day	Christmas Day
1962	3 (4)	2 (2)	-- (1)	5 (3)	No Record	11 (4)
1963	4 (1)	6 (4)	18 (4)	8 (3)	No Record	7 (1)
1964	3 (3)	4 (3)	7 (3)	15 (3)	No Record	13 (3)
1965	7 (3)	6 (3)	9 (3)	11 (3)	No Record	13 (3)
1966	6 (3)	11 (3)	7 (3)	27 (3)	No Record	6 (3)
1967	4 (3)	7 (4)	13 (4)	9 (3)	No Record	8 (3)
1968	1 (1)	11 (4)	16 (4)	18 (3)	10 (4)	5 (1)
1969	12 (4)	7 (3)	10 (3)	11 (3)	13 (4)	7 (4)
1970	8 (3)	8 (3)	10 (3)	13 (3)	12 (4)	7 (3)
1971	4 (3)	5 (3)	12 (3)	15 (3)	12 (4)	9 (3)
1972	5 (3)	9 (3)	3 (1)	6 (3)	14 (4)	12 (3)
1973	6 (4)	7 (3)	5 (1)	11 (3)	14 (4)	9 (4)
1974	6 (1)	4 (3)	8 (4)	16 (3)	13 (4)	4 (1)
1975	5 (4)	6 (3)	7 (3)	8 (3)	3 (4)	5 (4)
1976	9 (3)	6 (3)	16 (3)	10 (3)	9 (4)	5 (3)
1977	1 (3)	11 (3)	16 (3)	6 (3)	7 (4)	5 (3)
1978[1]	1/0 (3)	13/6 (3)	8/5 (4)	5/1 (3)	12/5 (4)	3/2 (4)
1979	3/3 (3)	9/5 (3)	8/4 (1)	11/8 (3)	10/6 (4)	11/6 (4)
1980	13/7 (4)	5/2 (3)	9/7 (3)	11/6 (3)	13/9 (4)	1/1 (4)
1981	8/4 (4)	8/3 (3)	6/2 (3)	7/4 (3)	7/2 (4)	6/1 (3)
1982	4/3 (3)	3/2 (3)	5/3 (3)	9/6 (3)	8/3 (4)	10/2 (3)
1983	17/11 (3)	10/9 (3)	9/8 (3)	6/2 (3)	3/1 (4)	2/0 (3)
1984	3/3 (3)	4/0 (3)	3/2 (1)	7/7 (3)	4/0 (4)	6/2 (4)
1985	4/2 (4)	5/2 (3)	7/6 (4)	13/12 (3)	11/1 (4)	0/0 (1)
1986[2]	0/0 (1)	7/7 (3)	3/2 (3)	8/5 (3)	4/3 (4)	8/5 (4)
1987	3/2 (4)	9/6 (3)	10/5 (3)	4/4 (3)	8/1 (4)	4/1 (3)

[1] Beginning with 1978, the number of alchol-related traffic fatalities for a given holiday is included, in addition to the total number of holiday fatalities. The number of all fatalities is on the left of the slash mark; the number of alcohol-related fatalities is on the right. As for previous years, the number of days included in the holiday is in parentheses.

[2] Memorial Day holiday fatality figures for 1986 have been revised.

Where Fatalities Happened

Counties

Fatalities by County
1985-1987

Numbers represent fatalities, in order, for each year from 1985 through 1987.

Where Crashes Happened

Counties

County	Registrations*	Licensed Drivers	All Acc.	Acc. Rate**	Acc. Rate***	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Adair	9,716	5,795	183	113.8	205.6	0	0	45	74
Adams	6,252	3,657	102	216.3	188.9	1	2	34	46
Allamakee	15,009	9,461	267	301.1	179.8	4	4	72	106
Appanoose	15,256	9,601	315	353.4	214.3	4	4	86	143
Audubon	8,312	5,265	116	231.4	140.6	1	1	36	45
Benton	23,708	14,742	334	170.1	146.2	4	4	115	185
Black Hawk	117,462	84,495	2,483	317.2	180.8	12	13	761	1,093
Boone	26,295	16,361	437	224.6	169.1	5	5	148	207
Bremer	23,205	15,665	392	247.4	157.1	1	1	120	166
Buchanan	20,917	13,456	326	206.3	139.0	2	2	99	145
Buena Vista	20,539	13,745	417	295.2	197.2	3	3	121	165
Butler	17,686	11,056	201	182.9	116.2	7	7	51	65
Calhoun	12,928	8,248	148	155.4	113.4	1	1	47	81
Carroll	22,306	14,593	445	314.6	193.5	1	2	119	172
Cass	18,164	11,056	374	183.3	218.1	3	3	97	137
Cedar	18,598	11,268	304	112.2	167.0	5	7	93	125
Cerro Gordo	46,806	32,618	1,160	308.4	241.7	8	9	351	503
Cherokee	16,121	10,141	283	290.3	180.3	4	4	80	118
Chickasaw	15,157	9,465	212	206.7	141.8	2	2	53	79
Clarke	9,040	5,610	230	225.5	248.6	3	3	51	95
Clay	18,653	12,495	470	343.3	253.4	3	3	152	211
Clayton	20,337	13,041	386	279.3	184.7	3	4	95	141
Clinton	52,657	35,878	1,373	444.2	241.7	9	9	344	481
Crawford	19,497	12,008	380	283.9	191.9	4	4	116	156
Dallas	31,237	19,890	508	165.1	174.9	8	8	157	228
Davis	9,808	5,426	165	237.4	171.9	2	2	57	84
Decatur	8,562	5,524	167	149.9	185.6	1	1	37	55
Delaware	17,972	11,805	314	229.9	164.4	2	3	89	128
Des Moines	46,143	29,978	973	398.2	218.9	6	6	300	406
Dickinson	15,927	10,802	380	307.5	242.0	2	3	108	186
Dubuque	80,727	58,440	2,317	519.3	254.5	9	10	630	866
Emmet	12,959	8,418	229	314.6	172.2	5	5	56	76
Fayette	22,967	15,337	325	211.5	132.9	4	5	115	196

* County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes, official vehicles, miscellaneous vehicles, trucks licensed to operate in more than one state, and vehicles registered to non-Iowa residents not registered to a specific county.

** Per 100 million vehicle miles traveled.

*** Per 10,000 population - projections estimated from 1987-88 Statistical Profile of Iowa, Department of Economic Development.

Where Crashes Happened

Counties

County	Registrations*	Licensed Drivers	All Acc.	Acc. Rate**	Acc. Rate***	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Floyd	19,350	12,071	356	307.5	189.4	3	5	101	134
Franklin	12,943	7,972	264	167.0	214.6	2	2	68	107
Fremont	9,841	5,798	176	128.7	191.3	5	6	54	90
Greene	12,375	7,434	196	210.0	167.5	3	3	66	90
Grundy	13,809	8,560	155	134.7	113.6	1	1	60	79
Guthrie	12,080	7,485	181	233.2	160.2	2	2	53	88
Hamilton	18,450	11,429	398	177.6	227.4	4	4	150	214
Hancock	14,016	8,753	160	165.2	117.6	4	4	57	77
Hardin	21,701	13,829	325	253.9	152.6	7	8	97	157
Harrison	18,449	10,467	366	207.0	228.0	5	8	105	158
Henry	19,862	12,598	395	283.6	217.6	1	1	133	176
Howard	11,053	6,788	150	220.7	138.2	3	3	50	80
Humboldt	12,666	7,928	175	205.8	147.1	2	2	62	81
Ida	9,587	5,896	130	207.1	152.0	3	5	32	48
Iowa	16,146	9,797	356	137.3	235.0	4	4	112	156
Jackson	21,627	13,555	301	238.8	135.0	10	14	99	156
Jasper	37,485	23,406	682	164.9	190.8	5	6	208	309
Jefferson	17,969	11,713	372	373.9	227.5	4	4	111	151
Johnson	70,080	60,391	2,162	321.7	249.7	6	6	601	831
Jones	19,528	12,209	370	284.7	183.2	3	3	115	188
Keokuk	13,566	8,080	125	122.9	101.2	5	6	39	69
Kossuth	21,525	13,577	232	157.6	108.2	5	6	69	102
Lee	42,191	26,878	906	361.8	212.4	8	9	275	397
Linn	162,963	116,887	3,679	349.4	220.8	15	17	962	1,332
Louisa	12,541	6,856	224	282.3	179.2	3	3	75	118
Lucas	10,129	6,446	224	296.6	213.3	3	3	63	105
Lyon	13,538	8,230	189	222.4	149.4	3	3	48	61
Madison	13,212	8,163	233	296.1	184.9	1	1	81	117
Mahaska	22,946	14,164	524	332.1	234.5	4	7	153	215
Marion	29,578	18,999	630	339.1	203.9	2	2	188	282
Marshall	40,237	27,107	889	325.5	207.2	5	7	266	380
Mills	14,070	8,582	302	194.5	211.2	3	3	86	127
Mitchell	12,378	7,783	129	184.0	110.3	1	1	47	74

* County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes, official vehicles, miscellaneous vehicles, trucks licensed to operate in more than one state, and vehicles registered to non-Iowa residents not registered to a specific county.

** Per 100 million vehicle miles traveled.

*** Per 10,000 Population - projections estimated from 1987-88 Statistical Profile of Iowa, Department of Economic Development.

Where Crashes Happened

Counties

County	Registrations*	Licensed Drivers	All Acc.	Acc. Rate**	Acc. Rate***	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Monona	11,782	7,257	199	146.8	177.7	4	4	60	93
Monroe	8,968	5,351	168	239.6	185.6	1	1	49	67
Montgomery	13,440	8,538	342	395.4	269.3	1	1	83	124
Muscatine	41,554	27,187	790	304.9	175.8	6	6	283	394
O'Brien	17,668	10,835	303	293.7	178.2	1	1	72	107
Osceola	8,330	5,183	118	195.9	147.5	0	0	31	53
Page	18,019	11,813	334	315.5	177.7	0	0	80	113
Palo Alto	11,562	7,602	163	204.9	133.1	0	0	62	97
Plymouth	25,738	15,579	466	248.6	194.2	9	10	164	238
Pocahontas	11,149	7,015	119	140.4	109.7	2	2	40	60
Polk	324,030	218,679	11,430	499.4	365.2	37	38	3,233	4,705
Pottawattamie	103,077	58,955	2,490	315.1	279.1	23	27	817	1,184
Poweshiek	20,332	12,683	343	132.9	186.4	5	6	113	161
Ringgold	6,322	3,819	116	262.1	196.6	1	2	23	31
Sac	13,520	8,573	183	168.0	136.1	4	4	48	75
Scott	152,115	108,648	3,987	376.0	242.0	20	20	1,241	1,745
Shelby	15,191	9,646	180	201.0	124.1	0	0	53	77
Sioux	28,874	18,894	396	215.5	128.4	5	5	120	188
Story	57,298	47,416	1,459	313.0	199.6	13	14	355	519
Tama	19,621	11,949	329	226.2	172.3	4	4	94	140
Taylor	8,385	5,167	118	268.3	143.0	3	3	21	31
Union	13,822	8,882	324	379.6	230.6	2	2	57	93
Van Buren	8,923	5,201	158	273.7	187.0	1	1	57	92
Wapello	36,775	24,757	685	325.6	177.5	1	1	245	367
Warren	35,748	23,529	638	230.6	178.5	2	2	199	304
Washington	20,495	12,885	373	234.4	185.1	3	3	128	213
Wayne	8,143	4,860	141	249.0	176.3	3	3	34	55
Webster	41,489	27,956	1,097	409.7	248.5	7	7	315	431
Winnebago	14,071	8,469	188	272.0	156.0	3	3	55	85
Winneshiek	20,677	13,120	438	319.1	199.5	3	4	110	160
Woodbury	94,404	65,905	2,371	408.0	232.6	13	16	833	1,208
Worth	9,441	5,669	145	127.6	167.6	0	0	50	86
Wright	16,030	10,302	195	168.8	123.0	2	2	49	65
Total	2,255,807	1,897,495	63,458	304.7	218.1	443	491	18,695	27,074

* County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes, official vehicles, miscellaneous vehicles, trucks licensed to operate in more than one state, and vehicles registered to non-Iowa residents not registered to a specific county.

** Per 100 million vehicle miles traveled.

*** Per 10,000 population - projections estimated from 1987-88 Statistical Profile of Iowa, Department of Economic Development.

Where Crashes Happened

Counties: Accidents by Road System

	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Adair	0	9	37	0	9	36	0	22	36	0	5	26	0	0	3
Adams	0	0	0	1	7	29	0	23	27	0	4	11	0	0	0
Allamakee	0	0	0	2	35	83	2	28	68	0	9	37	0	0	3
Appanoose	0	0	0	3	29	92	1	30	65	0	25	63	0	2	5
Audubon	0	0	0	0	11	30	1	20	22	0	5	24	0	0	3
Benton	0	2	7	0	38	70	4	54	76	0	21	62	0	0	0
Black Hawk	0	7	23	4	259	551	4	51	98	4	442	1,028	0	2	10
Boone	0	0	0	1	37	67	3	48	59	1	62	153	0	1	5
Bremer	0	0	0	1	57	132	0	40	74	0	23	65	0	0	0
Buchanan	0	1	9	0	28	77	2	40	68	0	30	71	0	0	0
Buena Vista	0	0	0	2	44	127	1	42	52	0	34	113	0	1	1
Butler	0	0	0	2	19	48	4	18	54	1	14	39	0	0	2
Calhoun	0	0	0	0	22	29	1	15	43	0	10	27	0	0	1
Carroll	0	0	0	0	64	141	1	22	65	0	30	112	0	3	7
Cass	2	12	52	0	34	115	1	25	31	0	26	73	0	0	3
Cedar	2	23	54	2	21	44	1	42	61	0	7	46	0	0	1
Cerro Gordo	0	15	34	5	152	353	1	41	76	2	140	331	0	3	7
Cherokee	0	0	0	3	30	93	0	29	48	1	21	58	0	0	0
Chickasaw	0	0	0	1	26	74	1	15	43	0	11	40	0	1	0
Clarke	1	10	25	1	26	83	1	11	30	0	4	33	0	0	5
Clay	0	0	0	2	61	118	1	45	60	0	44	136	0	2	1
Clayton	0	0	0	2	30	125	1	54	104	0	11	55	0	0	4
Clinton	0	0	0	5	129	375	3	64	92	1	148	536	0	3	17
Crawford	0	0	0	1	57	116	3	33	58	0	26	83	0	0	3
Dallas	2	9	67	3	62	109	3	49	70	0	37	93	0	0	4
Davis	0	0	0	1	22	54	1	27	31	0	7	20	0	1	1
Decatur	1	11	26	0	11	40	0	9	28	0	6	35	0	0	0
Delaware	0	0	0	1	14	78	1	51	97	0	23	46	0	1	2
Des Moines	0	0	0	3	107	236	0	44	74	3	147	350	0	2	7
Dickinson	0	0	0	1	59	145	1	37	68	0	11	53	0	1	4
Dubuque	0	0	0	5	247	650	2	67	130	2	313	890	0	3	8
Emmet	0	0	0	3	27	78	1	15	35	1	12	55	0	2	0
Fayette	0	0	0	2	57	105	2	44	57	0	14	42	0	0	2
Floyd	0	0	0	2	24	100	0	36	54	1	41	98	0	0	0
Franklin	0	7	39	1	24	69	1	23	43	0	14	39	0	0	4
Fremont	3	8	11	1	12	50	1	27	40	0	7	16	0	0	0
Greene	0	0	0	2	16	42	0	33	34	1	16	50	0	1	1
Grundy	0	0	0	1	17	39	0	34	25	0	8	30	0	1	0
Guthrie	0	0	0	2	25	52	0	21	41	0	7	27	0	0	6
Hamilton	0	21	30	3	23	57	1	34	42	0	71	111	0	1	4
Hancock	0	0	0	3	19	28	1	24	36	0	14	34	0	0	1
Hardin	0	0	0	4	31	100	3	39	43	0	27	78	0	0	0
Harrison	0	9	23	3	48	112	2	38	62	0	10	55	0	0	4
Henry	0	0	0	1	56	125	0	49	70	0	25	62	0	3	4
Howard	0	0	0	2	12	40	1	27	32	0	11	25	0	0	0
Humboldt	0	0	0	1	19	37	1	22	31	0	21	43	0	0	0
Ida	0	0	0	3	10	39	0	13	22	0	7	33	0	2	1
Iowa	3	17	57	0	31	65	1	51	75	0	12	39	0	1	4
Jackson	0	0	0	8	44	75	2	27	36	0	28	79	0	0	2
Jasper	1	31	86	2	70	143	2	55	77	0	51	156	0	1	7

SUMMARY

Counties: Acc. by Road System

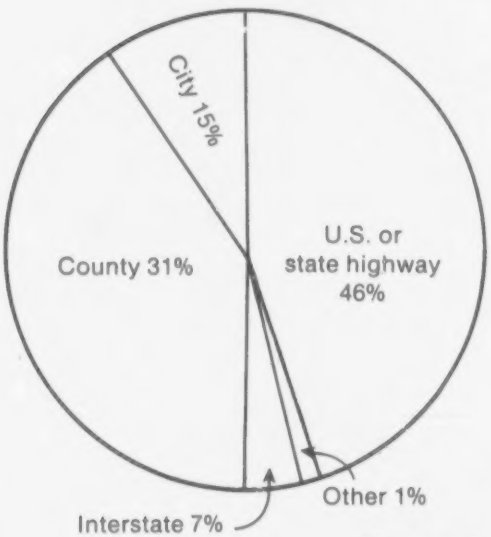
	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Jefferson	0	0	0	1	46	118	3	37	46	0	25	89	0	3	4
Johnson	0	55	139	3	193	505	1	115	141	2	236	761	0	2	9
Jones	0	0	0	1	51	117	2	47	72	0	17	61	0	0	2
Keokuk	0	0	0	3	25	47	2	12	20	0	2	14	0	0	0
Kossuth	0	0	0	1	24	62	4	31	47	0	13	49	0	1	0
Lee	0	0	0	6	150	312	1	39	75	1	83	228	0	3	8
Linn	0	48	154	7	263	756	1	115	157	6	528	1,608	1	8	27
Louisa	0	0	0	1	36	69	2	34	49	0	5	27	0	0	1
Lucas	0	0	0	2	24	50	1	18	26	0	20	82	0	1	0
Lyon	0	0	0	0	12	49	3	27	63	0	9	26	0	0	0
Madison	0	3	5	0	19	39	1	37	42	0	22	65	0	0	0
Mahaska	0	0	0	2	68	178	2	29	65	0	55	120	0	1	4
Marion	0	0	0	1	79	202	1	53	93	0	54	141	0	2	4
Marshall	0	0	0	1	99	218	4	59	96	0	104	292	0	4	12
Mills	0	12	19	2	35	91	1	23	51	0	15	50	0	1	2
Mitchell	0	0	0	0	16	22	1	26	30	0	5	29	0	0	0
Monona	0	8	13	2	19	47	2	28	37	0	5	37	0	0	1
Monroe	0	0	0	0	26	59	1	15	25	0	8	32	0	0	2
Montgomery	0	0	0	0	27	102	1	26	59	0	30	95	0	0	2
Muscatine	0	0	0	3	122	209	0	62	50	3	97	235	0	2	7
O'Brien	0	0	0	0	25	86	1	28	48	0	19	96	0	0	2
Osceola	0	0	0	0	7	37	0	17	28	0	7	22	0	0	0
Page	0	0	0	0	23	69	0	20	52	0	36	129	0	1	4
Palo Alto	0	0	0	0	22	46	0	28	26	0	12	28	0	0	1
Plymouth	0	0	0	5	53	99	3	69	84	1	40	105	0	2	5
Pocahontas	0	0	0	1	9	18	1	23	39	0	8	19	0	0	1
Polk	6	327	783	12	923	2,045	4	149	193	15	1,821	5,079	0	13	60
Pottawattamie	5	123	229	7	249	499	5	73	98	6	365	809	0	7	15
Poweshiek	0	30	39	3	47	84	2	18	32	0	18	69	0	0	1
Ringgold	0	0	0	0	11	33	1	11	38	0	1	21	0	0	0
Sac	0	0	0	1	23	50	2	20	40	1	4	40	0	1	1
Scott	1	77	178	12	394	872	2	62	93	4	694	1,553	1	14	30
Shelby	0	0	0	0	20	47	0	15	31	0	18	47	0	0	2
Sioux	0	0	0	2	49	110	2	42	60	1	28	98	0	1	3
Story	1	29	69	7	93	279	3	60	97	2	171	637	0	2	9
Tama	0	0	0	2	28	110	2	53	73	0	13	48	0	0	0
Taylor	0	0	0	0	4	42	3	9	30	0	8	21	0	0	1
Union	0	0	0	1	15	78	0	20	48	1	21	136	0	1	3
Van Buren	0	0	0	0	24	43	1	28	45	0	4	11	0	1	1
Wapello	0	0	0	1	80	162	0	56	57	0	105	218	0	4	2
Warren	0	15	38	1	80	188	1	63	116	0	40	91	0	1	4
Washington	0	0	0	3	53	123	0	39	68	0	36	51	0	0	0
Wayne	0	0	0	2	13	49	1	13	32	0	7	23	0	1	0
Webster	0	0	0	3	105	246	3	50	103	1	157	422	0	3	4
Winnebago	0	0	0	2	16	44	0	23	39	1	16	44	0	0	3
Winneshiek	0	0	0	1	26	111	1	54	122	0	27	90	1	3	2
Woodbury	1	62	96	4	168	217	3	65	70	5	530	1,071	0	8	17
Worth	0	7	20	0	17	43	0	21	3	0	5	8	0	0	1
Wright	0	0	8	0	12	42	2	21	37	0	15	54	0	1	3
Total	29	988	2,370	202	6,235	14,854	141	3,691	5,827	68	7,651	20,862	3	130	407

Where Crashes Happened

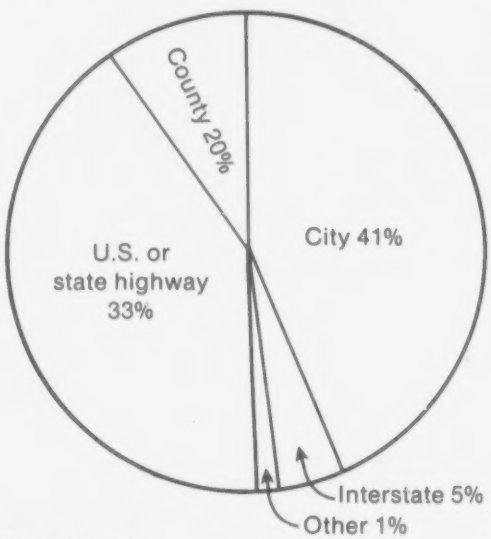
By Road System

	Fatal	Injury	Property Damage	Total
Interstate	29	988	2,370	3,387
U.S. or State Highway	202	6,235	14,854	21,291
County	141	3,691	5,827	9,659
City	68	7,651	20,862	28,581
Other	3	130	407	540
Total	443	18,695	44,320	63,458

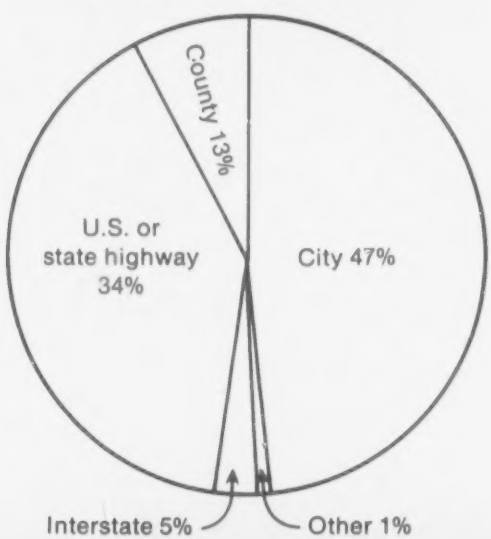
Fatal Accidents



Injury Accidents



Property Damage Accidents



Where Crashes Happened

Cities

City	Population*	Number of Accidents 1986	Number of Accidents 1987	Persons Killed 1986	Persons Killed 1987	Persons Injured 1986	Persons Injured 1987	Acc. Rate** 1986	Acc. Rate** 1987
1. Des Moines	191,003	7,802	8,203	15	20	3,057	3,194	408.5	429.5
2. Cedar Rapids	110,243	2,575	2,774	12	8	936	901	233.6	251.6
3. Davenport	103,264	2,664	2,892	8	6	1,199	1,242	258.0	280.1
4. Sioux City	82,003	2,112	2,055	6	8	1,030	1,035	257.6	250.6
5. Waterloo	75,985	1,492	1,390	5	5	705	665	196.4	182.9
6. Dubuque	62,321	1,624	1,771	2	2	640	597	260.6	284.2
7. Council Bluffs	56,449	1,978	1,905	9	13	971	879	350.4	337.5
8. Iowa City	50,508	1,143	1,240	1	2	345	373	226.3	245.5
9. Ames	45,775	990	977	1	2	299	274	216.3	213.4
10. Cedar Falls	36,322	664	719	1	1	287	253	182.8	198.0
11. Clinton	32,828	939	981	0	1	296	268	286.0	298.8
12. Mason City	30,144	774	735	2	2	313	287	256.8	243.8
13. Burlington	29,529	580	625	2	2	237	255	196.4	211.7
14. Fort Dodge	29,423	772	780	1	2	275	291	262.4	265.1
15. Bettendorf	27,381	520	534	1	6	257	245	189.9	195.0
16. Ottumwa	27,381	445	454	2	0	202	208	162.5	165.8
17. Marshalltown	26,938	626	583	0	0	219	220	232.4	216.4
18. Muscatine	23,467	436	491	2	4	193	218	185.8	209.2
19. West Des Moines	21,894	576	657	1	1	226	227	263.1	300.1
20. Marion	19,474	295	303	0	1	124	112	151.5	155.6
21. Urbandale	17,869	336	410	1	0	141	166	188.0	229.4
22. Ankeny	15,429	309	313	0	0	193	179	200.3	202.9
23. Newton	15,292	228	269	0	0	109	107	149.1	175.9
24. Keokuk	13,536	253	289	2	1	114	128	186.9	213.5
25. Fort Madison	13,520	330	295	1	1	115	134	244.1	218.2
26. Boone	12,602	214	200	2	1	90	76	169.8	158.7
27. Spencer	11,726	241	289	2	0	103	114	205.5	246.5
28. Oskaloosa	10,989	237	272	1	0	77	103	215.7	247.5
29. Indianola	10,843	193	186	0	1	57	77	178.0	171.5
30. Carroll	9,705	242	233	0	0	99	71	249.4	240.1
31. Fairfield	9,428	253	237	0	0	86	67	268.3	251.4
32. Grinnell	8,868	146	135	2	0	51	56	164.6	152.2
33. Storm Lake	8,814	186	232	0	0	66	59	211.0	263.2
34. Charles City	8,778	139	176	0	1	49	58	158.4	200.5

* List includes all Iowa cities with a population of 5,000 or more, based on 1980 census figures (including revisions made through January 1983). Figures provided by Office of the State Demographer, Department of Economic Development, Des Moines.

** Per 10,000 population

Where Crashes Happened

Cities

City	Population*	Number of Accidents 1986	Number of Accidents 1987	Persons Killed 1986	Persons Killed 1987	Persons Injured 1986	Persons Injured 1987	Acc. Rate** 1986	Acc. Rate** 1987
35. Webster City	8,572	173	185	0	0	58	92	201.8	215.8
36. Waverly	8,444	177	138	0	1	36	45	209.6	163.4
37. Creston	8,429	184	193	1	1	55	47	218.3	229.0
38. Pella	8,349	173	184	0	0	51	65	207.2	220.4
39. Le Mars	8,276	164	169	0	2	75	81	198.2	204.2
40. Knoxville	8,143	119	145	0	0	50	51	146.1	178.1
41. Decorah	8,068	183	136	0	0	62	44	226.8	168.6
42. Atlantic	7,789	152	157	2	0	42	51	195.1	201.6
43. Coralville	7,687	289	312	1	1	134	150	376.0	405.9
44. Oelwein	7,564	95	90	1	1	42	44	125.6	119.0
45. Estherville	7,518	113	132	0	1	50	42	150.3	175.6
46. Clear Lake	7,458	165	161	0	0	60	91	221.2	215.9
47. Mount Pleasant	7,322	131	178	0	1	56	68	178.9	243.1
48. Perry	7,053	124	104	1	1	62	42	175.8	147.5
49. Cherokee	7,004	111	109	0	1	55	44	158.5	155.6
50. Red Oak	6,810	117	147	0	0	44	46	171.8	215.9
51. Denison	6,675	187	161	0	0	76	74	280.1	241.2
52. Washington	6,584	99	115	0	0	34	64	150.4	174.7
53. Centerville	6,558	112	123	0	0	57	50	170.8	187.6
54. Independence	6,392	108	97	0	0	43	35	169.0	151.8
55. Maquoketa	6,313	103	124	0	0	36	53	163.2	196.4
56. Algona	6,289	104	90	1	1	37	33	165.4	143.1
57. Shenandoah	6,274	79	100	0	0	25	28	125.9	159.4
58. Iowa Falls	6,174	102	103	1	0	41	39	165.2	166.8
59. Clive	6,064	262	252	0	1	120	108	432.1	415.6
60. Nevada	5,912	76	63	0	1	24	20	128.6	106.6
61. Altoona	5,764	78	103	0	1	23	41	135.3	178.7
62. Windsor Heights	5,474	126	152	0	2	60	66	230.2	277.7
63. Clarinda	5,458	75	88	0	0	20	29	137.4	161.2
64. Harlan	5,357	81	79	0	0	27	29	151.2	147.5
65. Glenwood	5,280	79	66	0	0	28	20	149.6	125.0
66. Vinton	5,040	55	44	0	0	15	13	109.1	87.3
67. Sheldon	5,003	134	136	0	0	39	37	267.8	271.8
68. Chariton	5,116	111	109	0	0	43	29	217.0	213.1

* List includes all Iowa cities with a population of 5,000 or more, based on 1980 census figures (including revisions made through January 1983). Figures provided by Office of the State Demographer, Department of Economic Development, Des Moines.

** Per 10,000 population.

Alcohol-Related

Drinking/Driving

Age of Drinking Drivers Involved in Accidents

During 1987, 46.5 percent of the fatal accidents and 47.0 percent of the fatalities were alcohol-related. Alcohol involvement is more apt to occur, and more likely to be reported, in fatal accidents than in non-fatal accidents.

In Iowa during 1987, drivers involved in fatal accidents were not required by law to submit to an alcohol test. Testing for alcohol in both fatal and all accidents was based on "probable cause," as determined by the investigating officer. Care should be used in comparing the yearly percentages of alcohol-related fatal accidents due to fluctuations in the number of reports received.

Iowa alcohol-related accident figures should not be compared to states where an alcohol test is mandatory.

Driver Age	All Accidents		Fatal Accidents		Injury Accidents		Property Damage Accidents	
	No. of Drivers	%	No. of Drivers	%	No. of Drivers	%	No. of Drivers	%
15 & younger	17	0.4	2	0.9	10	0.4	5	0.2
16	101	2.2	6	2.7	55	2.3	40	1.9
17	200	4.3	7	3.2	102	4.3	91	4.3
18	244	5.2	11	5.0	126	5.4	107	5.1
19	291	6.2	14	6.3	137	5.8	140	6.7
20	295	6.3	10	4.5	149	6.3	136	6.5
21	285	6.1	10	4.5	144	6.1	131	6.3
22	247	5.3	10	4.5	134	5.7	103	4.9
23	268	5.7	10	4.5	132	5.6	126	6.0
24	221	4.7	12	5.4	118	5.0	91	4.3
25-34	1,440	30.9	80	36.0	751	31.9	609	29.1
35-44	549	11.8	24	10.8	278	11.8	247	11.8
45-54	230	4.9	13	5.9	115	4.9	102	4.9
55-64	142	3.0	9	4.1	56	2.4	77	3.7
65-74	62	1.3	2	0.9	21	0.9	39	1.9
75 & older	27	0.6	2	0.9	15	0.6	10	0.5
Not stated	47	1.0	0	—	9	0.4	38	1.8
Total no. of drivers	4,666		222		2,352		2,092	

Iowa
Accidents Involving
Alcohol

In 1987 there were:

- **231 persons killed in alcohol-related accidents, or 47.0 percent of all traffic fatalities**
- **3,538 persons injured in alcohol-related accidents**
- **4,557 accidents involving alcohol and motor vehicles**
  - **206 fatal accidents involving alcohol and motor vehicles, or 46.5 percent of all fatal accidents**
  - **2,313 personal injury accidents involving alcohol and motor vehicles**
  - **2,038 property damage accidents involving alcohol and motor vehicles**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers/ Operators	Percent
Drinking driver/operator actions:		
Ran traffic control	325	7.0
Improper passing	73	1.6
Left of center, not passing	265	5.7
Failure to yield	183	3.9
Wrong way, one-way road	30	0.6
Speed too fast	691	14.8
Drag racing	8	0.2
Improper turn	55	1.2
Improper lane change	48	1.0
Following too close	114	2.4
Improper or no signal	14	0.3
Disregarded R.R. signal	13	0.3
Disregarded warning signal	14	0.3
Reckless driving	272	5.8
Improper backing	50	1.1
Illegal or improper parking	18	0.4
Failure to have control	2,480	53.2
Lights not on	33	0.7
Inattentive/distracted	344	7.4
Confused/inexperienced	134	2.9
Vision Obscured	149	3.2
Oversized vehicle	0	--
Other	543	11.6

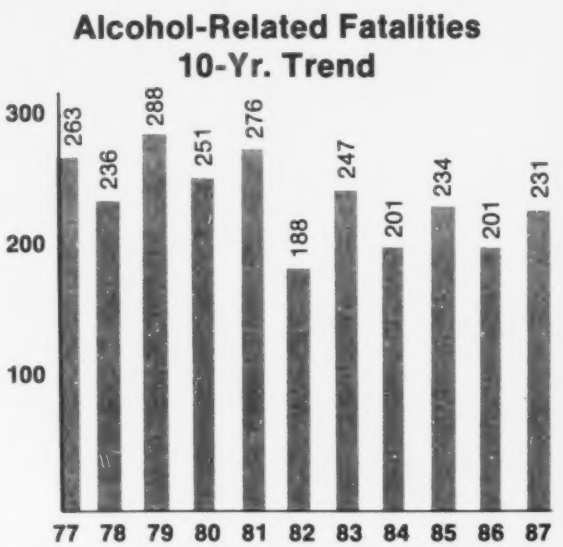
Drinking pedestrian actions:	Pedestrians	Percent
Crossing against signal	1	2.6
Crossing, not at crosswalk	11	28.9
Walking, Improper position on roadway	11	28.9
Walking with traffic	1	2.6
Walking against traffic	0	--
Crossing with signal or in crosswalk	1	2.6
Ran onto roadway or into road from between parked cars	4	10.5
Playing	0	--
Pushing, working on vehicle	0	--
Lying or sitting on roadway	1	2.6
Getting on or off vehicle	4	10.5
Walking, off roadway	0	--
Unknown/other	4	10.5

Note: From 0-2 action/circumstances are listed for each drinking driver, operator or pedestrian involved in an accident.

Condition	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
Drinking - impaired	3,029	65.2	25	65.8
Drinking - not impaired	1,598	34.4	13	34.2
Drugs	--	--	--	--
Physical defect	--	--	--	--
Fatigued	3	0.1	--	--
Apparently asleep	7	0.2	--	--
Ill	1	*	--	--
Under medication	--	--	--	--
Infirmities of age	2	*	--	--
Other	5	0.1	--	--
Total no. of drivers (condition stated)	4,645		38	
Condition not stated	21			
GRAND TOTAL	4,666		38	

Note: Some of the drinking drivers were not listed as 'condition = drinking,' but did have a blood alcohol content greater than 0. This may occur because the report form provides space to list only one condition, although more than one condition may have been applicable to the driver at the time. If the driver fell asleep at the wheel and possessed a BAC above 0, for instance, the officer may have listed the condition as 'apparently asleep.'

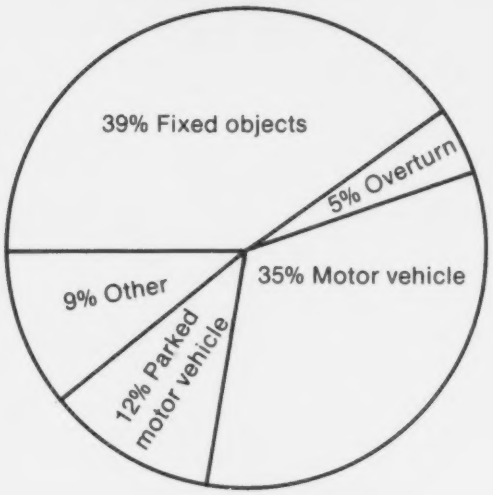
Sex	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
Male	4,070		34	89.5
Female	577		4	10.5
Total no. of drivers (sex known)	4,627		38	
Sex not stated	39			
GRAND TOTAL	4,666		38	



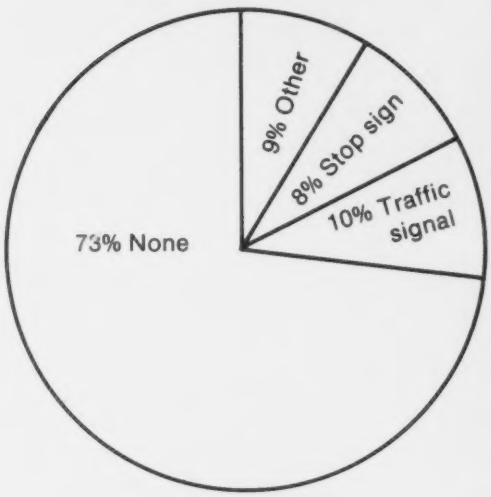
Note: In 1987 alcohol-related accidents, 52.4 percent of the motor vehicle occupants who were killed or injured were not wearing safety belts, 23.4 percent were wearing safety belts, and safety belt use was unknown or unreported for 24.2 percent of those killed or injured.

Alcohol-Related Crashes

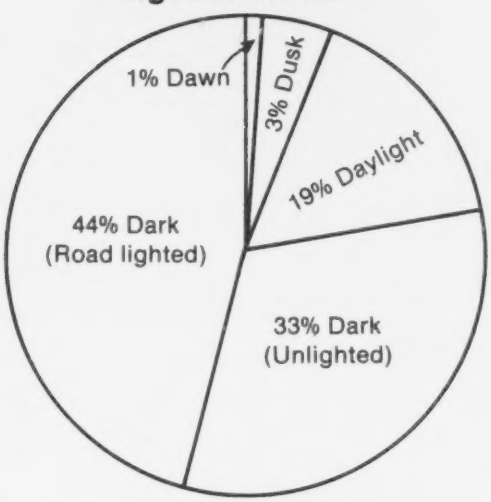
Accident Type



Traffic Controls

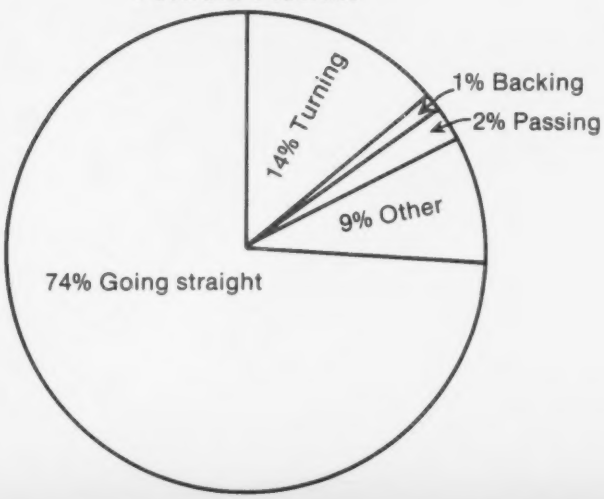


Light Condition



Fixed Objects

Vehicle Action



Weather	Number of Accidents	Percent
Clear	2,806	61.6
Cloudy	1,311	28.8
Fog	64	1.4
Mist	193	4.2
Rain	323	7.1
Sleet/hail	24	0.5
Snow	108	2.4
Strong wind	54	1.2
Other	8	0.2

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Total percent may not equal 100 due to rounding.

Alcohol-Related Crashes

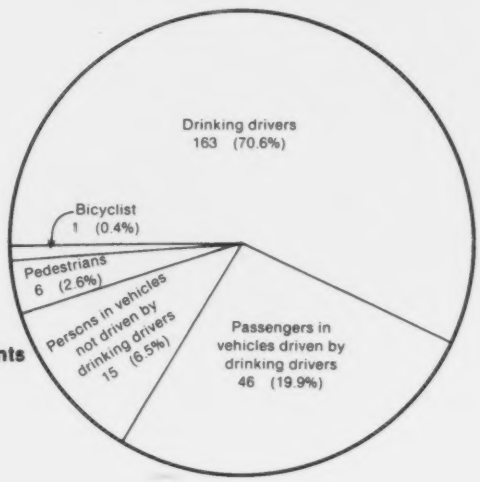
Fatalities/Injuries

1987 Deaths and Injuries by Age

Driver Age	Number Killed	Number Injured
Under 14	3	137
14-15	6	79
16	9	130
17	6	185
18	13	213
19	13	221
20	9	214
21-24	40	685
25-34	67	928
35-44	25	333
45-54	17	166
55-64	12	79
65-74	6	44
75+	5	13
Unknown	0	111
Total	231	3,538

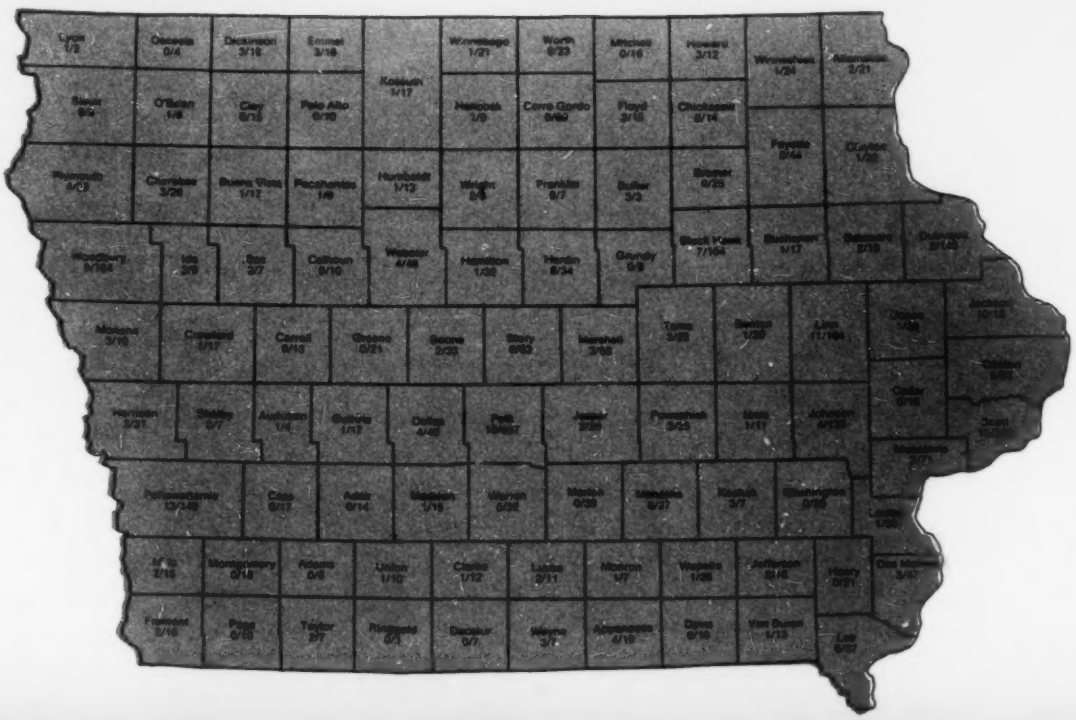
1987 Deaths and Injuries by Road Type

Road Type	Number Killed	Number Injured
Interstate	10	176
U.S. or state highways	108	1,154
County roads	76	939
City streets	37	1,240
Other/unknown	0	29
Total	231	3,538



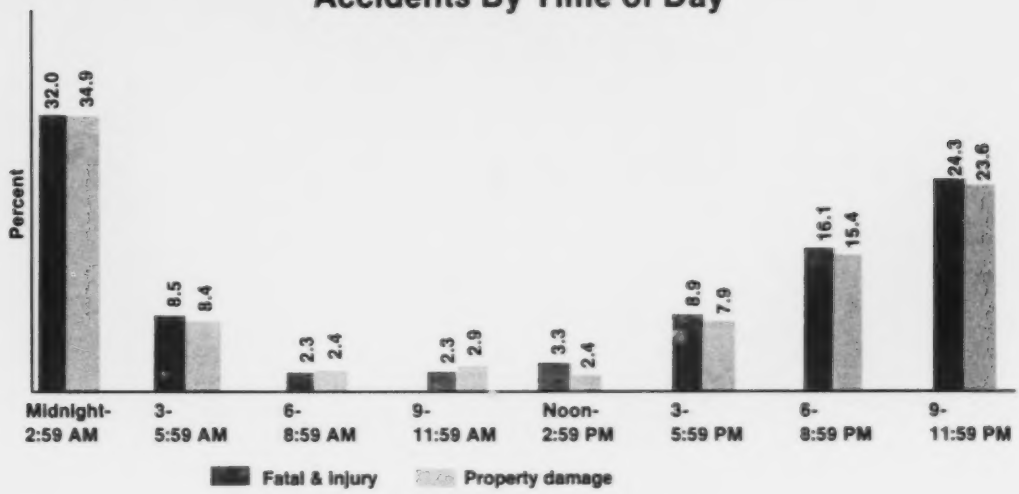
Persons Killed in Motor Vehicle Traffic Accidents Involving Alcohol
Total Killed: 231

1987 Fatalities/Injuries

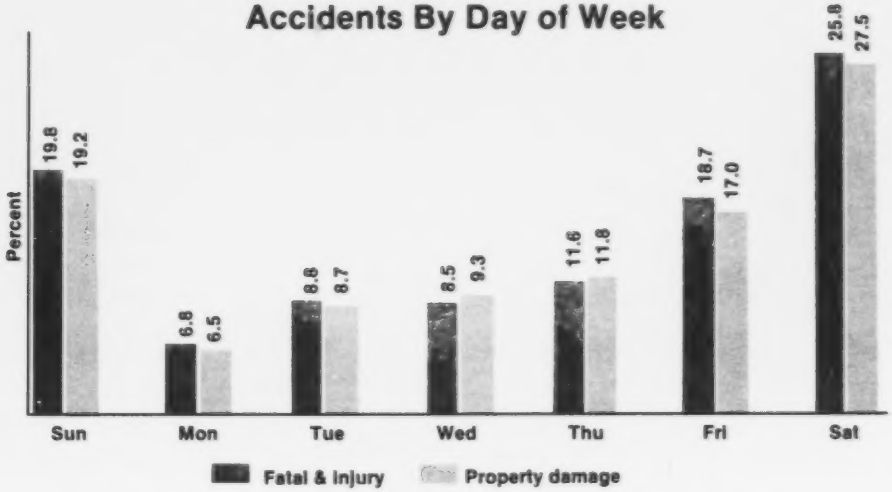


Alcohol Related Crashes

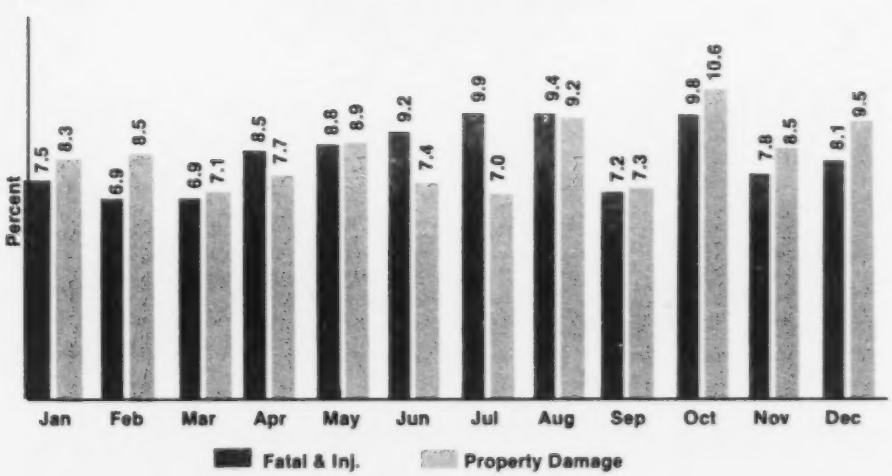
Accidents By Time of Day



Accidents By Day of Week



Accidents By Month

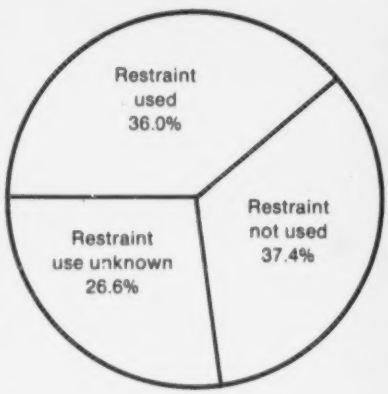


Safety Belt Usage

Belt Usage By Road System

Road System	Restraint Usage	Killed		Major Injury		Minor or Possible Injury		Total	
		Number	%	Number	%	Number	%	Number	%
Interstate	Used	5	17.9	68	34.2	535	43.5	608	41.8
	Not Used	20	71.4	93	46.7	367	29.9	480	33.0
	Unknown	3	10.7	38	19.1	327	26.6	368	25.3
	Total	28		199		1,229		1,456	
U.S./State Highway	Used	52	27.8	369	34.6	3,169	41.5	3,590	40.4
	Not Used	121	64.7	446	41.9	1,949	25.5	2,516	28.3
	Unknown	14	7.5	250	23.5	2,527	33.1	2,791	31.4
	Total	187		1,065		7,645		8,897	
County	Used	19	15.1	174	20.7	1,484	35.1	1,677	32.3
	Not Used	100	79.4	424	50.5	1,627	38.5	2,151	41.4
	Unknown	7	5.6	241	28.7	1,120	26.5	1,368	26.3
	Total	126		839		4,231		5,196	
City	Used	6	15.4	130	23.1	2,638	35.9	2,774	34.9
	Not Used	28	71.8	272	48.4	2,086	28.4	2,386	30.0
	Unknown	5	12.8	160	28.5	2,625	35.7	2,790	35.1
	Total	39		562		7,349		7,950	

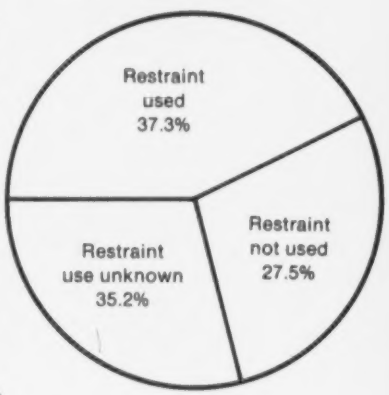
Belt Usage in Rural Accidents



Belt Usage By Accident Type

Accident Type	Restraint Usage	Killed		Major Injury		Minor or Possible Injury		Total	
		Number	%	Number	%	Number	%	Number	%
Overturn	Used	4	6.7	34	21.5	259	30.0	297	27.5
	Not Used	53	88.3	75	47.5	327	37.9	455	42.1
	Unknown	3	5.0	49	31.0	276	32.0	328	30.4
	Total	60		158		862		1,080	
Collision with vehicle	Used	66	32.2	510	36.5	5,660	41.7	6,236	41.1
	Not Used	122	59.5	524	37.5	3,235	23.8	3,881	25.6
	Unknown	17	8.3	362	25.9	4,673	34.4	5,052	33.3
	Total	205		1,396		13,568		15,169	
Collision with fixed object	Used	8	8.2	149	17.2	1,297	31.2	1,454	28.4
	Not Used	82	83.7	495	57.3	1,730	41.6	2,307	45.0
	Unknown	8	8.2	220	25.5	1,136	27.3	1,364	26.6
	Total	98		864		4,163		5,125	
Collision with other	Used	5	20.8	25	19.2	350	31.0	380	29.6
	Not Used	16	66.7	67	51.5	432	38.2	515	40.1
	Unknown	3	12.5	38	29.2	348	30.8	389	30.3
	Total	24		130		1,130		1,284	

Belt Usage in Urban Accidents

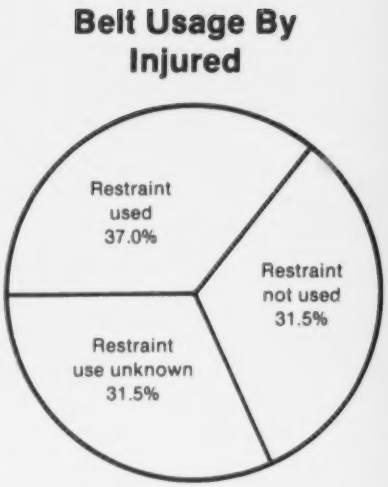


Note: Total percent may not equal 100 due to rounding. Restraint Usage for uninjured occupants is not available. Excludes pedestrians, bicycles, motorcycles, mopeds, farm vehicles, ATVs, and occupants on the exterior or "other". (eg. back of pickup)

Safety Belt Usage

Belt Usage By Position

Position	Restraint Usage	Killed Number	Killed %	Major Injury Number	Major Injury %	Minor or Possible Injury Number	Minor or Possible Injury %	Total Number	Total %
Driver	Used	58	21.2	494	31.9	5,292	46.5	5,844	44.2
	Not Used	192	70.3	700	45.2	3,166	27.8	4,058	30.7
	Unknown	23	8.4	356	23.0	2,931	25.7	3,310	25.1
	Total	273		1,550		11,389		13,212	
Front Seat Passenger	Used	19	24.4	210	33.2	1,988	42.1	2,217	40.8
	Not Used	56	71.8	330	52.2	1,751	37.1	2,137	39.3
	Unknown	3	3.8	92	14.6	983	20.8	1,078	19.8
	Total	78		632		4,722		5,432	
Back Seat Passenger	Used	4	18.2	37	16.0	463	29.1	504	27.3
	Not Used	15	68.2	163	70.6	819	51.4	997	54.0
	Unknown	3	13.6	31	13.4	311	19.5	345	18.7
	Total	22		231		1,593		1,846	
Position Unknown	Used	1	11.1	3	1.1	96	3.4	100	3.2
	Not Used	7	77.8	54	19.9	329	11.6	390	12.5
	Unknown	1	11.1	214	79.0	2,406	85.0	2,621	84.2
	Total	9		271		2,831		3,111	



Belt Usage in Selected Vehicles

Vehicle Type	Restraint Usage	Killed Number	Killed %	Major Injury Number	Major Injury %	Minor or Possible Injury Number	Minor or Possible Injury %	Total Number	Total %
Passenger Car	Used	68	22.1	623	29.7	6,688	39.2	7,379	37.9
	Not Used	218	71.0	944	44.9	4,835	28.3	5,997	30.8
	Unknown	21	6.8	534	25.4	5,544	32.5	6,099	31.3
	Total	307		2,101		17,067		19,475	
Panel/Van/ Pickup	Used	12	19.0	95	20.8	934	32.8	1,041	30.9
	Not Used	44	69.8	238	52.1	1,032	36.2	1,314	39.0
	Unknown	7	11.1	124	27.1	884	31.0	1,015	30.1
	Total	63		457		2,850		3,370	
Straight Truck/ Truck Tractors/ Semis	Used	2	22.2	17	22.7	138	36.0	157	33.6
	Not Used	7	77.8	32	42.7	130	33.9	169	36.2
	Unknown	0	0.0	26	34.7	115	30.0	141	30.2
	Total	9		75		383		467	
Car or Pickup with Trailer or Camper	Used	2	66.7	7	31.8	48	44.0	57	42.5
	Not Used	1	33.3	11	50.0	30	27.5	42	31.3
	Unknown	0	0.0	4	18.2	31	28.4	35	26.1
	Total	3		22		109		134	

Note: Total percent may not equal 100 due to rounding. Restraint Usage for uninjured occupants is not available. Excludes pedestrians, bicycles, motorcycles, mopeds, farm vehicles, ATVs, and occupants on the exterior or "other". (eg. back of pickup)

Child Restraint Usage
Children Under 6 Years of Age

Severity*	Type	Front Seat Occupant Number	%	Back Seat Occupant Number	%	Position Unknown Number	%	Totals Number	%
Killed	Child Restraint Used	0	--	0	--	0	--	0	--
	Other Restraint	0	--	1	25.0	0	--	1	20.0
	None	1	100.0	2	50.0	0	--	3	60.0
	Unknown	0	--	1	25.0	0	--	1	20.0
Injured	Child Restraint Used	52	16.9	77	31.6	7	6.5	136	20.6
	Other Restraint	102	33.1	72	29.5	10	9.3	184	27.9
	None	124	40.3	69	28.3	30	28.0	223	33.8
	Unknown	30	9.7	26	10.7	60	56.1	116	17.6
Total*	Child Restraint Used	52	16.8	77	31.0	7	6.5	136	20.5
	Other Restraint	102	33.0	73	29.4	10	9.3	185	27.9
	None	125	40.5	71	28.6	30	28.0	226	34.0
	Unknown	30	9.7	27	10.9	60	56.1	117	17.6
Grand Total		309		248		107		664	

* Excludes bicyclists, pedestrians, farm tractors, motorcycles, mopeds, ATVs, bus passengers, and occupants riding on exterior or "other" (i.e. back of pickup).

Total percent may not equal 100 due to rounding.

Fatalities and Injuries of Children Under 6 Years of Age
(Occupants of Passenger Vehicles)

Year	Fatalities	Injuries	% Restraint Used
1982	7	826	8.8
1983	5	780	10.7
1984	8	769	13.6
1985*	3	708	31.1
1986	5	649	31.8
1987	5	659	48.3

* Child restraint law in effect.

Accident Summary

Number of Accidents Involving Specific Vehicle Types: 1987

Vehicle Type	All Accidents		Fatal Accidents		
	No.	Percent	No.*	Percent	Drivers: % with Iowa Licenses*,*
Automobile	55,174	86.9	325	73.4	89.7
Automobile/pickup with trailer or camper	706	1.1	7	1.6	100.0
Bus	185	0.3	0	--	--
School bus	186	0.3	2	0.5	100.0
Bicycle	820	1.3	4	0.9	--
Moped	370	0.6	4	0.9	100.0
Motorcycle	1,743	2.7	52	11.7	90.6
Farm vehicle	296	0.5	9	2.0	100.0
Motor home	101	0.2	1	0.2	0.0
Train	143	0.2	11	2.5	--
Panel/van/pickup	15,442	24.3	103	23.3	89.4
Straight truck	1,268	2.0	14	3.2	85.7
Tow/maintenance/ construction vehicle	393	0.6	1	0.2	100.0
Truck tractor	195	0.3	5	1.1	40.0
Truck tractor with trailer	2,251	3.5	49	11.1	67.3
Unknown/Other	230	0.4	0	--	--
ATV	35	0.1	3	0.7	100.0

"All Accidents" percentages are based on 63,458 accidents which occurred in 1987. Fatal accident percentages are based on 443 fatal accidents which occurred in 1987.

* Percent of drivers with Iowa licenses does not include legally parked vehicles involved in fatal accidents. Therefore, number of fatal accidents may not be the number of vehicles involved in fatal accidents found on vehicle pages.

** 87.7 percent of all drivers involved in fatal accidents in Iowa during 1987 were licensed in Iowa.

Vehicle Registrations*

	1986	1987
Automobiles	1,894,167	1,936,356
Buses	8,772	9,202
Motor Homes	18,941	19,114
Motorcycles	172,444	163,521
Mopeds	57,725	54,481
Trucks	667,298	684,621
Truck Tractors	21,791	25,699
Total	2,841,138	2,892,994

* Includes vehicles registered in Iowa. Does not include trucks registered in more than one state.

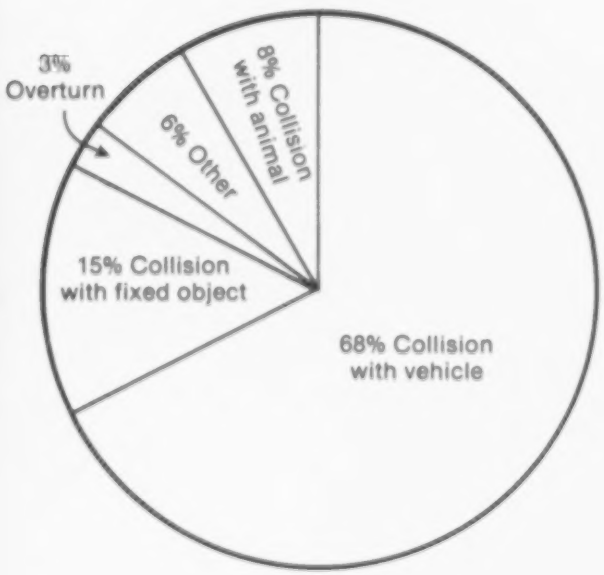
Accident Summary

Accident Type

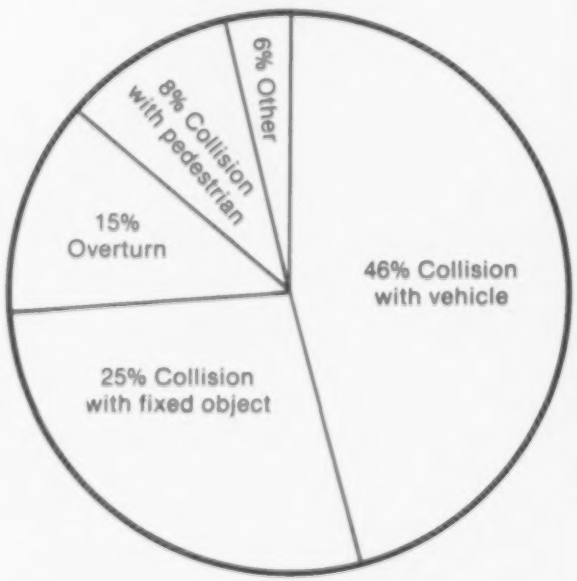
Vehicles Involved in Accidents

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Tow/maintenance	Bus	School bus	Straight truck	Truck tractor	Truck/trailer	Farm vehicle	Other	Total
Overturn	936	354	46	215	48	10	0	4	66	10	145	15	24	1,873
Collision with:														
Pedestrian	649	98	4	16	4	1	4	0	8	1	3	1	22	811
Vehicle in traffic	61,699	11,541	455	419	228	279	142	151	925	138	1,526	227	1,172	78,902
Parked vehicle	7,258	1,691	55	52	20	64	21	21	111	16	117	16	502	9,944
Motorcycle in traffic	460	86	9	619	2	2	0	0	3	1	6	3	11	1,202
Pedacycle	514	98	1	9	24	0	0	1	3	0	2	0	18	670
Train	84	31	1	4	0	1	0	0	1	0	4	2	0	128
Animal	4,145	894	35	68	1	1	3	4	19	6	93	2	30	5,301
Fixed object	6,905	1,611	74	225	27	28	13	7	116	21	339	19	208	9,593
Other object	487	133	24	29	8	10	1	0	11	6	42	10	25	786
Other	1,038	283	27	134	26	3	2	1	30	1	51	5	16	1,617
Total	84,175	16,820	731	1,790	388	399	186	189	1,293	200	2,328	300	2,028	110,827

All Accidents



Fatal Accidents



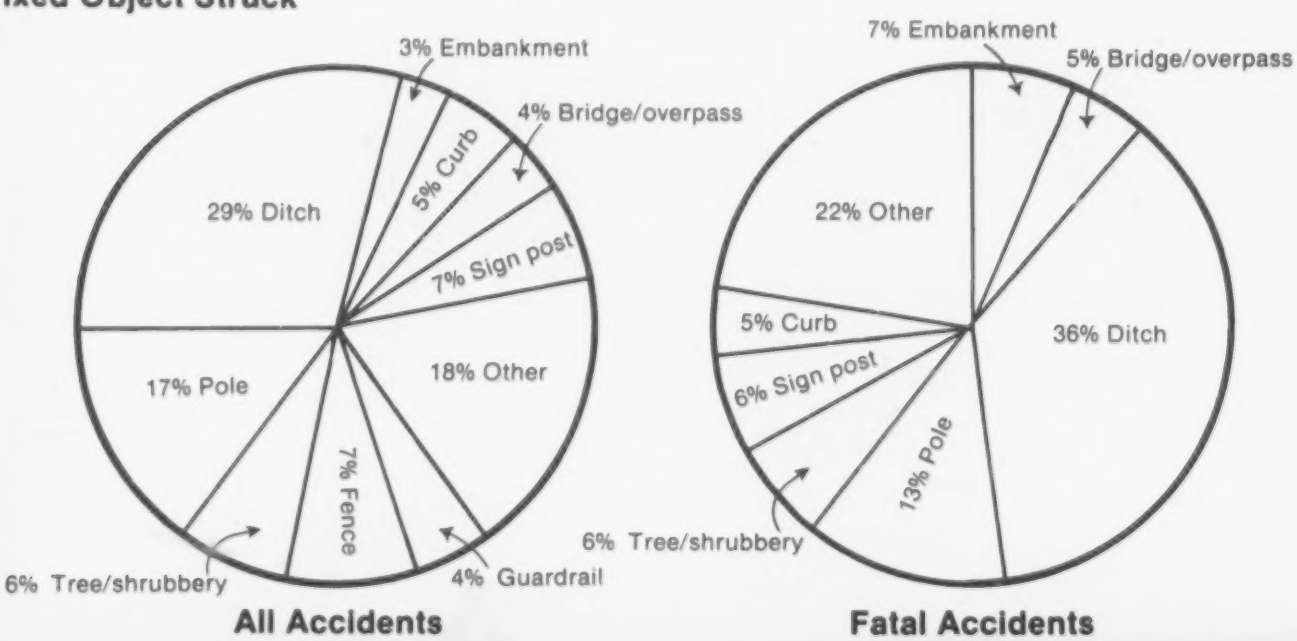
Accident Summary

Fixed Objects

Fixed Objects - All Accidents by Vehicle Type

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Tow/maintenance	Bus	School bus	Straight truck	Truck tractor	Truck/trailer	Farm vehicle	Other	Total
Ditch	2,750	796	37	100	4	9	2	4	58	7	140	14	27	3,948
Pole	1,717	369	18	14	0	6	7	2	23	11	97	3	56	2,323
Sign post	696	139	8	16	1	1	2	0	11	3	33	2	16	928
Tree/shrubbery	694	150	8	14	0	1	0	0	4	2	15	0	9	897
Guardrail	410	72	11	12	1	0	0	1	7	1	26	0	5	546
Fence	726	141	8	11	2	4	1	1	15	1	24	0	21	955
Bridge/overpass	421	95	8	8	0	6	0	0	12	1	36	4	3	594
Curb	524	78	0	77	18	2	0	0	8	1	8	1	1	718
Building	255	60	5	4	3	3	1	0	5	0	10	0	1	347
Enbankment/wall	285	67	3	12	1	0	1	0	4	0	3	0	2	378
Culvert	221	65	2	2	0	0	0	0	2	1	9	1	1	304
Mailbox	176	46	2	3	1	0	0	0	2	1	1	0	11	243
Underpass	29	9	2	1	0	2	0	0	3	1	9	0	1	57
Impact Attenuator	25	4	0	0	0	0	0	1	0	0	4	0	1	35
Other	1,053	230	11	62	4	2	0	1	14	1	59	3	30	1,470
Total	9,982	2,321	123	336	35	38	14	15	168	31	474	28	185	13,743

Fixed Object Struck



Vehicle Defect

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Tow/ maintenance	Bus	School bus	Straight truck	Truck tractor	Semi	Farm tractor	Other	Total
Brakes	356	93	2	9	9	6	2	3	38	1	21	6	4	550
Tires	271	84	17	26	4	4	1	0	18	2	10	0	1	438
Lights	100	40	8	5	1	3	1	0	12	0	5	9	1	185
Steering	63	28	2	2	1	1	0	0	5	0	1	1	0	104
Trailer hitch	13	8	22	0	0	0	0	0	3	0	7	2	2	57
Wipers	15	2	0	1	0	0	0	0	1	0	2	0	0	21
Other	389	88	14	16	1	6	2	0	24	3	24	10	3	580
None	51,521	10,926	421	1,187	285	273	135	130	850	132	1,637	192	1,052	68,741
Not stated	31,447	5,551	245	544	87	106	45	56	342	62	621	80	965	40,151
Total vehicles	84,175	16,820	731	1,790	388	399	186	189	1,293	200	2,328	300	2,028	110,827

Traffic Controls

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Bicycle	Bus	School bus	Straight truck	Truck tractor	Truck/trailer	Farm tractor	Tow/ maintenance	Other
No controls	36,065	10,868	546	1,327	311	569	105	133	867	142	1,561	257	262	259
Traffic signals	8,863	2,239	77	188	18	120	49	18	169	33	338	1	48	51
Stop signs	7,495	1,570	47	93	30	97	26	17	132	10	148	12	39	29
Yield sign	654	129	4	12	6	8	0	1	17	1	15	0	6	1
No Passing zone	479	153	5	41	1	3	0	2	18	2	32	18	5	6
R.R. warning	81	25	1	4	0	1	2	4	1	0	3	0	1	2
R.R. automatic	65	16	3	1	0	0	0	1	0	1	6	0	0	0
R.R. crossing gate	22	10	0	0	0	0	0	1	0	1	5	0	0	0
Other	1,310	368	20	72	3	7	3	8	61	5	134	8	30	13
Not stated	140	64	3	5	1	1	0	1	3	0	9	0	2	5
Total accidents	55,174	15,442	706	1,743	370	806	185	186	1,268	195	2,251	296	393	366

Weather*

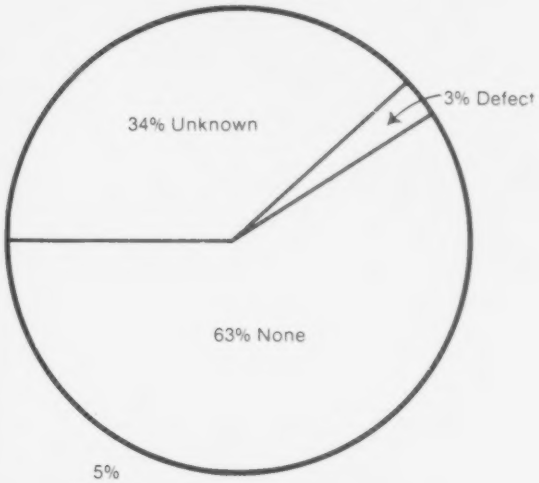
	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Bicycle	Bus	School bus	Straight truck	Truck tractor	Truck/trailer	Farm tractor	Tow/ maintenance	Other
Clear	32,758	9,024	448	1,311	276	616	102	101	790	120	1,289	206	210	1,189
Cloudy	14,111	4,218	166	343	80	174	56	60	352	45	616	71	104	366
Fog	602	196	4	7	2	1	2	4	10	3	40	2	5	11
Mist	2,085	611	27	24	6	7	8	3	26	5	90	6	10	53
Rain	4,434	1,307	49	46	13	19	21	15	80	20	163	11	25	132
Sleet/hail	379	107	9	0	0	0	3	2	5	4	36	0	5	9
Snow	1,978	636	14	4	2	2	4	9	41	7	118	2	38	64
Strong wind	630	228	13	6	2	2	1	2	17	7	78	5	19	18
Other/unknown	2,282	469	27	36	3	16	5	6	29	3	54	4	12	204
Total	59,259	16,796	757	1,777	384	837	202	202	1,350	214	2,484	307	428	2,046

*Up to two weather conditions may be listed for each accident.

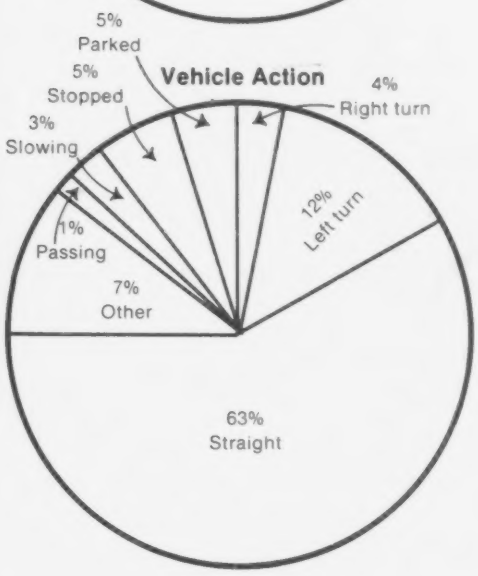
Accident Summary

All Accidents

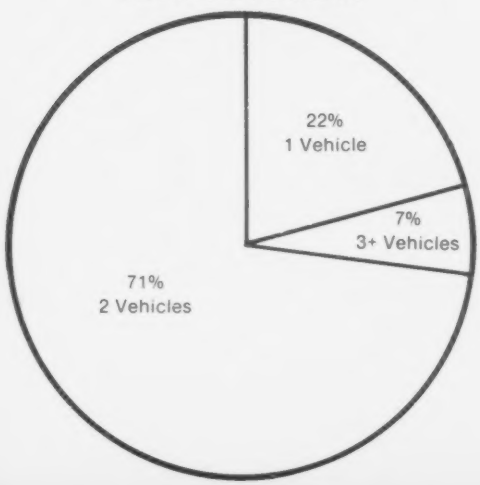
Vehicle Defects



Vehicle Action

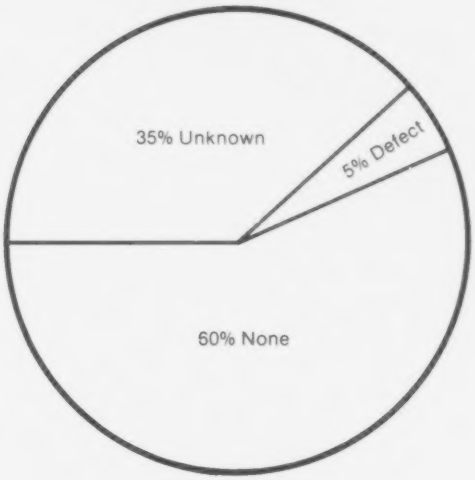


Number of Vehicles Involved in Accidents

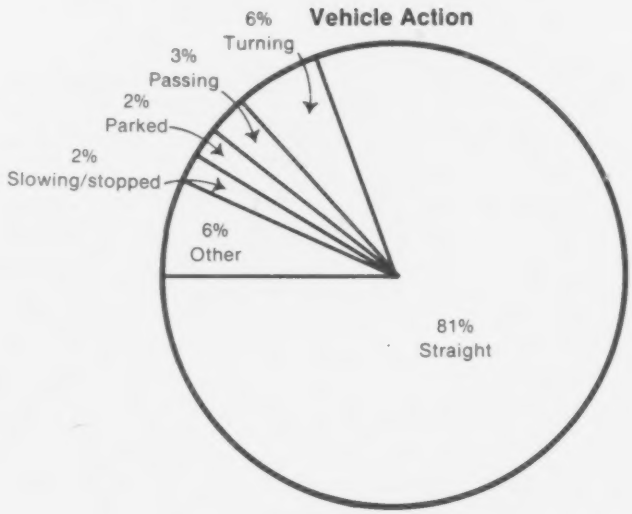


Fatal Accidents

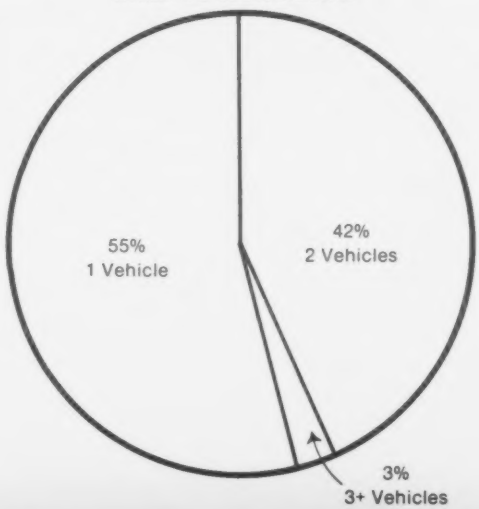
Vehicle Defects



Vehicle Action



Number of Vehicles Involved in Accidents



Accident Summary

All Accidents

Surface Conditions	Number of Accidents	Percent
Dry	49,519	78.0
Wet	10,101	15.9
Ice	4,480	7.1
Snow	4,100	6.5
Loose Gravel	1,981	3.1
Other	534	0.8

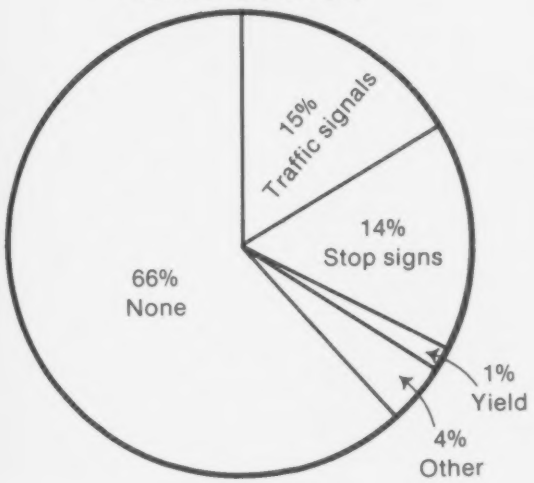
Note: Some accident reports listed more than one type of surface condition. The percentage listed is based on total number of accidents.

Fatal Accidents

Surface Conditions	Number of Accidents	Percent
Dry	374	84.4
Wet	50	11.3
Ice	14	3.2
Snow	14	3.2
Loose Gravel	28	6.3
Other	1	0.2

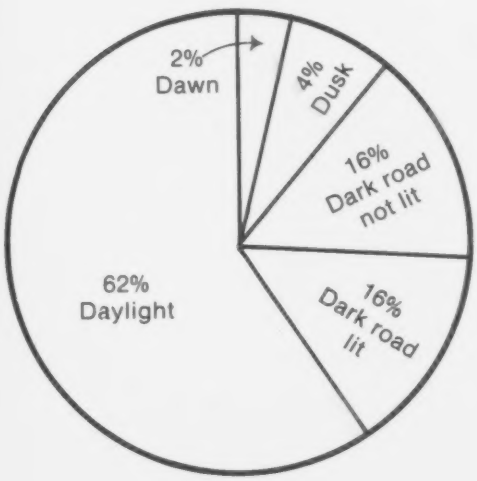
Note: Some accident reports listed more than one type of surface condition. The percentage listed is based on total number of fatal accidents.

Traffic Controls

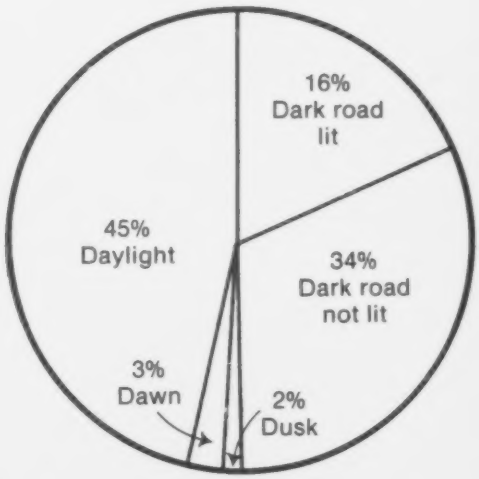


Traffic Controls

Light



Light



Roadway/Environmental-Related Conditions

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Tow/ maintenance	Bus	School bus	Straight truck	Truck tractor	Semi	Farm tractor	Other	Total
Weather conditions	1,653	377	14	13	3	15	8	7	21	3	84	1	11	2 210
Surface conditions	4,133	1,077	41	62	29	38	10	14	73	13	165	7	38	5,700
Pedestrian action	179	27	1	5	1	0	1	0	1	0	2	1	2	220
Previous accident	161	31	2	1	1	0	0	0	0	0	4	0	1	201
Animal in roadway	1,774	439	16	43	3	1	3	2	16	3	55	0	10	2,365
Non-contact vehicle	1,225	238	9	30	8	7	3	5	15	3	55	3	13	1,614
Construction area	371	92	9	8	1	20	1	1	18	1	52	1	6	581
Other	891	248	10	42	8	12	5	1	24	6	32	9	11	1,299
None	51,872	10,918	449	1,400	305	252	131	116	942	141	1,552	243	1,048	69,369
Not stated	21,916	3,373	180	186	29	54	24	43	183	30	327	35	888	27,268
Total vehicles	84,175	16,820	731	1,790	388	399	186	189	1,293	200	2,328	300	2,028	110,827

All Accidents

	Interstate	US/State Highway	County	City	Other	Total
Weather conditions	149	558	206	580	7	1,500
Surface conditions	369	1,184	919	1,807	30	4,309
Pedestrian action	5	45	16	131	6	203
Previous accident	37	42	10	31	0	120
Animal in roadway	150	1,130	948	103	3	2,334
Non-contact vehicle	81	486	157	438	2	1,164
Construction area	99	155	26	54	0	334
Other	47	280	207	388	26	948
None	1,751	12,465	5,208	17,635	300	37,359
Not stated	699	4,946	1,962	7,414	166	15,187
Total	3,387	21,291	9,659	28,581	540	63,458

Fatal Accidents

	Interstate	US/State Highway	County	City	Other	Total
Weather conditions	0	8	2	1	0	11
Surface conditions	1	8	6	1	0	16
Pedestrian action	1	6	0	6	0	13
Previous accident	1	2	0	0	0	3
Animal in roadway	0	1	1	0	0	2
Non-contact vehicle	1	5	2	1	0	9
Construction area	3	0	0	0	0	3
Other	1	3	0	0	0	4
None	21	169	128	58	3	379
Not stated	0	0	2	1	0	3
Total	29	202	141	68	3	443

Accident Summary

Fatal Crashes

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	73	11.0
Improper passing	18	2.7
Left of center, not passing	45	6.8
Failure to yield	31	4.7
Wrong way, one-way road	8	1.2
Speed too fast	82	12.4
Drag racing	2	0.3
Improper turn	1	0.2
Improper lane change	1	0.2
Following too close	2	0.3
Improper or no signal	0	--
Disregarded R.R. signal	3	0.5
Disregarded warning signal	2	0.3
Reckless driving	14	2.1
Improper backing	1	0.2
Illegal or improper parking	1	0.2
Failure to have control	177	26.8
Lights not on	1	0.2
Inattentive/distracted	25	3.8
Confused/inexperienced	20	3.0
Vision obscured	11	1.7
Oversized vehicle	0	--
Other	31	4.7

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Fatal Accidents

Weather	Number of Accidents	Percent
Clear	294	66.4
Cloudy	122	27.5
Fog	6	1.4
Mist	7	1.6
Rain	27	6.1
Sleet/hail	2	0.5
Snow	7	1.6
Strong wind	8	1.8
Other	2	0.5

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of fatal accidents.

Total percent may not equal 100 due to rounding.

Driver Condition	Number of Drivers	Percent
Apparently normal	364	60.1
Drinking - impaired	158	26.1
Drinking - not impaired	48	7.9
Drugs	1	0.2
Physical defect	2	0.3
Fatigued	3	0.5
Apparently asleep	12	2.0
Ill	3	0.5
Under medication	0	--
Infirmities of age	6	1.0
Other	9	1.5
Total no. of drivers (age known)	606	
Age not stated	55	
GRAND TOTAL	661	

Note: Total percentage may not equal 100 due to rounding.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	561	81.1
Turning left	38	5.5
Turning right	5	0.7
Backing	4	0.6
Stopped in traffic	6	0.9
Parked	16	2.3
Making U-turn	2	
Passing	20	
Changing lanes	3	
Merging	3	9.0
Parking	1	
Slowing-stopping	8	
Unattended moving vehicle	17	
Other	8	
Total no. of vehicles (action stated)	692	
Action not stated	2	
GRAND TOTAL	694	

Note: Total number of vehicles includes parked vehicles involved in accidents.

1987 Alcohol Involvement in Fatal Crashes

Vehicle Type	Total Drivers/ Pedestrains	Total Tested	Total Drinking (less than .10)	Total Drunk (.10 or more)	Tested Result .000	Tested Result Unknown
Driver	606	301	44	133	103	21
Motorcycle Driver	52	43	8	24	7	4
Pedestrian	34	3	0	1	2	0
All-Terrain Vehicle Driver	3	2	0	0	1	1
Total	695	349	52	158	113	26

Iowa
Accidents Involving
All Vehicles

In 1987 there were:

- **453 motor vehicle occupants killed**
- **25,463 motor vehicle occupants injured**
- **63,458 accidents involving motor vehicles**
  - **443 fatal accidents involving motor vehicles**
  - **18,695 personal injury accidents involving motor vehicles**
  - **44,320 property damage accidents involving motor vehicles**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	7,701	7.3
Improper passing	1,089	1.0
Left of center, not passing	1,300	1.2
Failure to yield	7,658	7.3
Wrong way, one-way road	108	0.1
Speed too fast	4,254	4.1
Drag racing	42	*
Improper turn	1,461	1.4
Improper lane change	1,448	1.4
Following too close	2,604	2.5
Improper or no signal	484	0.5
Disregarded R.R. signal	53	0.1
Disregarded warning signal	104	0.1
Reckless driving	663	0.6
Improper backing	1,466	1.4
Illegal or improper parking	163	0.2
Failure to have control	12,555	12.0
Lights not on	153	0.1
Inattentive/distracted	5,417	5.2
Confused/inexperienced	2,234	2.1
Vision obscured	8,576	8.2
Oversized vehicle	109	0.1
Other	5,507	5.2

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

*Less than one-tenth of one percent.

Driver Condition	Number of Drivers	Percent
Apparently normal	94,171	93.2
Drinking - impaired	3,032	3.0
Drinking - not impaired	1,598	1.6
Drugs	58	0.1
Physical defect	161	0.2
Fatigued	367	0.4
Apparently asleep	588	0.6
Ill	85	0.1
Under medication	70	0.1
Infirmities of age	526	0.5
Other	340	0.3
Total no. of drivers (condition stated)	100,996	
Condition not stated	4,008	
GRAND TOTAL	105,004	

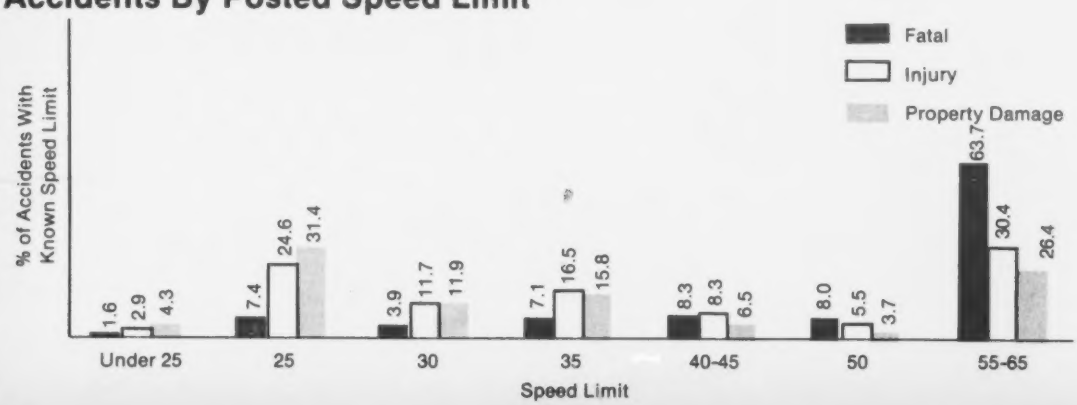
Note: Total percent may not equal 100 percent due to rounding.

The Machine

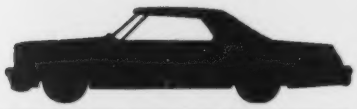
Vehicle Action	Number of Vehicles	Percent
Going straight	68,604	63.0
Turning left	12,575	11.5
Turning right	4,265	3.9
Backing	2,910	2.7
Stopped in traffic	5,573	5.1
Parked	5,702	5.2
Making U-turn	280	8.6
Passing	1,363	
Changing lanes	1,756	
Merging	684	
Parking	215	
Slowing-stopping	3,195	
Unattended moving vehicle	121	
Other	1,704	
Total no. of vehicles (action stated)	108,947	
Action not stated	1,880	
GRAND TOTAL	110,827	

Note: Total number of vehicles includes parked vehicles involved in accidents.

Accidents By Posted Speed Limit



Iowa
Accidents Involving
Automobiles



In 1987 there were:

- **308 automobile occupants killed**
- **19,184 automobile occupants injured**
- **55,174 accidents involving automobiles**
  - **325 fatal accidents involving automobiles**
  - **15,523 personal injury accidents involving automobiles**
  - **39,326 property damage accidents involving automobiles**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	6,236	7.8
Improper passing	751	0.9
Left of center, not passing	946	1.2
Failure to yield	6,266	7.9
Wrong way, one-way road	86	0.1
Speed too fast	3,151	4.0
Drag racing	30	*
Improper turn	1,035	1.3
Improper lane change	1,017	1.3
Following too close	1,980	2.5
Improper or no signal	316	0.4
Disregarded R.R. signal	40	0.1
Disregarded warning signal	66	0.1
Reckless driving	484	0.6
Improper backing	877	1.1
Illegal or improper parking	112	0.1
Failure to have control	9,228	11.6
Lights not on	105	0.1
Inattentive/distracted	4,158	5.2
Confused/inexperienced	1,746	2.2
Vision obscured	6,538	8.2
Oversized vehicle	19	*
Other	3,932	4.9

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

*Less than one-tenth of one percent.

Driver Condition	Number of Drivers	Percent
Apparently normal	71,924	93.5
Drinking - impaired	2,147	2.8
Drinking - not impaired	1,161	1.5
Drugs	43	0.1
Physical defect	127	0.2
Fatigued	275	0.4
Apparently asleep	425	0.6
Ill	65	0.1
Under medication	54	0.1
Infirmities of age	471	0.6
Other	251	0.3
Total no. of drivers (condition stated)	76,943	
Condition not stated	2,793	
GRAND TOTAL	79,736	

Note: Total Percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	49,367	63.7
Female	28,099	36.3
Total no. of drivers (sex known)	77,466	
Sex not stated	2,270	
GRAND TOTAL	79,736	

Driver Age	Number of Drivers	Percent
15 & younger	555	0.7
16	4,297	5.7
17	4,431	5.9
18	3,969	5.3
19	3,442	4.6
20-24	12,711	16.9
25-34	16,341	21.8
35-44	10,415	13.9
45-54	6,071	8.1
55-64	5,303	7.1
65-74	4,424	5.9
75 & older	3,087	4.1
Total no. of drivers (age known)	75,046	
Age not stated	4,690	
GRAND TOTAL	79,736	

Note: In 1987 automobile accidents, 30.8 percent of the automobile occupants who were killed or injured were not wearing safety belts, 37.9 percent were wearing safety belts, and safety belt use was unknown or unreported for 31.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	52,330	63.1
Turning left	9,927	12.0
Turning right	3,006	3.6
Backing	1,860	2.2
Stopped in traffic	4,516	5.4
Parked	4,367	5.3
Making U-turn	201	
Passing	939	
Changing lanes	1,268	
Merging	528	8.3
Parking	162	
Slowing-stopping	2,515	
Unattended moving vehicle	72	
Other	1,216	
Total no. of vehicles (action stated)	82,907	
Action not stated	1,268	
GRAND TOTAL	84,175	

Note: Total number of vehicles includes parked automobiles involved in accidents.

Iowa
Accidents Involving
Panels/Vans/Pickups

In 1987 there were:

- **65 panel/van/pickup occupants killed**
- **3,334 panel/van/pickup occupants injured**
- **15,442 accidents involving panels/vans/pickups**
  - **103 fatal accidents involving panels/vans/pickups**
  - **4,161 personal injury accidents involving panels/vans/pickups**
  - **11,178 property damage accidents involving panels/vans/pickups**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	1,114	7.1
Improper passing	163	1.0
Left of center, not passing	236	1.5
Failure to yield	1,052	6.7
Wrong way, one-way road	14	0.1
Speed too fast	695	4.4
Drag racing	6	*
Improper turn	220	1.4
Improper lane change	197	1.2
Following too close	415	2.6
Improper or no signal	79	0.5
Disregarded R.R. signal	8	0.1
Disregarded warning signal	13	0.1
Reckless driving	104	0.7
Improper backing	373	2.4
Illegal or improper parking	34	0.2
Failure to have control	2,089	13.2
Lights not on	26	0.2
Inattentive/distracted	882	5.6
Confused/inexperienced	250	1.6
Vision obscured	1,390	8.8
Oversized vehicle	12	0.1
Other	845	5.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

*Less than one-tenth of one percent.

Driver Condition	Number of Drivers	Percent
Apparently normal	13,884	91.4
Drinking - impaired	665	4.4
Drinking - not impaired	321	2.1
Drugs	10	0.1
Physical defect	23	0.2
Fatigued	60	0.4
Apparently asleep	96	0.6
Ill	16	0.1
Under medication	11	0.1
Infirmities of age	49	0.3
Other	56	0.4
Total no. of drivers (condition stated)	15,191	
Condition not stated	588	
GRAND TOTAL	15,779	

Note: Total Percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	13,568	88.1
Female	1,825	11.9
Total no. of drivers (sex known)	15,393	
Sex not stated	386	
GRAND TOTAL	15,779	

Driver Age	Number of Drivers	Percent
15 & younger	84	0.6
16	511	3.4
17	511	3.4
18	473	3.2
19	427	2.9
20-24	2,315	15.5
25-34	4,222	28.3
35-44	2,653	17.8
45-54	1,544	10.3
55-64	1,242	8.3
65-74	699	4.7
75 & older	252	1.7
Total no. of drivers (age known)	14,933	
Age not stated	846	
GRAND TOTAL	15,779	

Note: In 1987 panel/van/pickup accidents, 39.0 percent of the panel/van/pickup occupants who were killed or injured were not wearing safety belts, 30.9 percent were wearing safety belts, and safety belt use was unknown or unreported for 30.1 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	10,393	62.6
Turning left	1,715	10.3
Turning right	639	3.8
Backing	658	4.0
Stopped in traffic	803	4.8
Parked	1,011	6.1
Making U-turn	46	
Passing	213	
Changing lanes	230	
Merging	95	8.3
Parking	28	
Slowing-stopping	454	
Unattended moving vehicle	30	
Other	284	
Total no. of vehicles (action stated)	16,599	
Action not stated	221	
GRAND TOTAL	16,820	

Note: Total number of vehicles includes parked panels/vans/pickups involved in accidents.

Iowa
Accidents Involving

Automobiles/Pickups With Trailers Or Campers

In 1987 there were:

3 occupants of automobiles/pickups with trailers or campers killed

132 occupants of automobiles/pickups with trailers or campers injured

706 accidents involving automobiles/pickups with trailers or campers

7 fatal accidents involving automobiles/pickups with trailers or campers

176 personal injury accidents involving automobiles/pickups with trailers or campers

523 property damage accidents involving automobiles/pickups with trailers or campers

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	26	3.7
Improper passing	9	1.3
Left of center, not passing	12	1.7
Failure to yield	26	3.7
Wrong way, one-way road	1	0.1
Speed too fast	26	3.7
Drag racing	0	--
Improper turn	13	1.9
Improper lane change	17	2.4
Following too close	13	1.9
Improper or no signal	17	2.4
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	2	0.3
Improper backing	10	1.4
Illegal or improper parking	1	0.1
Failure to have control	66	9.5
Lights not on	0	--
Inattentive/distracted	25	3.6
Confused/inexperienced	11	1.6
Vision obscured	43	6.2
Oversized vehicle	3	0.4
Other	72	10.3

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	637	94.7
Drinking - impaired	12	1.8
Drinking - not impaired	6	0.9
Drugs	0	--
Physical defect	1	0.1
Fatigued	5	0.7
Apparently asleep	6	0.9
Ill	1	0.1
Under medication	1	0.1
Infirmities of age	2	0.3
Other	2	0.3
Total no. of drivers (condition stated)	673	
Condition not stated	24	
GRAND TOTAL	697	

Note: Total Percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	595	87.2
Female	87	12.8
Total no. of drivers (sex known)	682	
Sex not stated	15	
GRAND TOTAL	697	

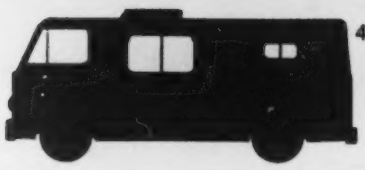
Driver Age	Number of Drivers	Percent
15 & younger	4	0.6
16	13	2.0
17	16	2.4
18	10	1.5
19	15	2.3
20-24	77	11.7
25-34	155	23.5
35-44	148	22.5
45-54	78	11.8
55-64	90	13.7
65-74	39	5.9
75 & older	14	2.1
Total no. of drivers (age known)	659	
Age not stated	38	
GRAND TOTAL	697	

Note: In 1987 automobile/pickup with trailer or camper accidents, 31.3 percent of the automobile/pickup with trailer or camper occupants who were killed or injured were not wearing safety belts, 42.5 percent were wearing safety belts, and safety belt use was unknown or unreported for 26.1 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	471	65.0
Turning left	92	12.7
Turning right	34	4.7
Backing	18	2.5
Stopped in traffic	26	3.6
Parked	32	4.4
Making U-turn	3	
Passing	6	
Changing lanes	13	
Merging	0	7.2
Parking	1	
Slowing-stopping	19	
Unattended moving vehicle	2	
Other	8	
Total no. of vehicles (action stated)	725	
Action not stated	6	
GRAND TOTAL	731	

Note: Total number of vehicles includes parked automobiles/pickups with trailers or campers.



Iowa
Accidents Involving
Motor Homes

In 1987 there were:
- **0 motor home occupants killed**
- **6 motor home occupants injured**
- **101 accidents involving motor homes**
  - **1 fatal accident involving a motor home**
  - **20 personal injury accidents involving motor homes**
  - **80 property damage accidents involving motor homes**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	0	--
Improper passing	4	4.3
Left of center, not passing	2	2.2
Failure to yield	5	5.4
Wrong way, one-way road	0	--
Speed too fast	0	--
Drag racing	0	--
Improper turn	0	--
Improper lane change	8	8.7
Following too close	2	2.2
Improper or no signal	1	1.1
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	3	3.3
Illegal or improper parking	0	--
Failure to have control	8	8.7
Lights not on	0	--
Inattentive/distracted	1	1.1
Confused/inexperienced	1	1.1
Vision obscured	7	7.6
Oversized vehicle	1	1.1
Other	9	9.8

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	84	95.5
Drinking - impaired	0	--
Drinking - not impaired	1	1.1
Drugs	0	--
Physical defect	1	1.1
Fatigued	0	--
Apparently asleep	1	1.1
Ill	0	--
Under medication	0	--
Infirmities of age	1	1.1
Other	0	--
Total no. of drivers (condition stated)	88	
	4	
GRAND TOTAL	92	

Note: Total Percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	78	89.7
Female	9	10.3
Total no. of drivers (sex known)	87	
Sex not stated	5	
GRAND TOTAL	92	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	0	--
19	0	--
20-24	2	2.3
25-34	1	1.1
35-44	14	16.1
45-54	19	21.8
55-64	23	26.4
65-74	23	26.4
75 & older	5	5.7
Total no. of drivers (age known)	87	
Age not stated	5	
GRAND TOTAL	92	

Note: In 1987 motor home accidents, 16.7 percent of the motor home occupants who were injured were not wearing safety belts, 33.3 percent were wearing safety belts, and safety belt use was unknown or unreported for 50.0 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	45	44.1
Turning left	9	8.8
Turning right	7	6.9
Backing	6	5.9
Stopped in traffic	5	4.9
Parked	9	8.8
Making U-turn	0	
Passing	4	
Changing lanes	10	
Merging	1	20.6
Parking	0	
Slowing-stopping	3	
Unattended moving vehicle	1	
Other	2	
Total no. of vehicles (action stated)	102	
Action not stated	0	
GRAND TOTAL	102	

Iowa
Accidents Involving
Buses

In 1987 there were:

- **0 bus occupants killed**
- **40 bus occupants injured**
- **185 accidents involving buses**
  - **0 fatal accidents involving buses**
  - **43 personal injury accidents involving buses**
  - **142 property damage accidents involving buses**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	11	6.1
Improper passing	0	--
Left of center, not passing	1	0.6
Failure to yield	9	5.0
Wrong way, one-way road	0	--
Speed too fast	7	3.9
Drag racing	0	--
Improper turn	6	3.3
Improper lane change	2	1.1
Following too close	5	2.8
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	5	2.8
Illegal or improper parking	0	--
Failure to have control	11	6.1
Lights not on	0	--
Inattentive/distracted	5	2.8
Confused/inexperienced	0	--
Vision obscured	10	5.5
Oversized vehicle	1	0.6
Other	7	3.9

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	179	100.0
Drinking - impaired	0	--
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	179	
Condition not stated	2	
GRAND TOTAL	181	

Note: Total Percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	147	82.1
Female	32	17.9
Total no. of drivers (sex known)	179	
Sex not stated	2	
GRAND TOTAL	181	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	0	--
19	0	--
20-24	14	8.0
25-34	44	25.0
35-44	44	25.0
45-54	34	19.3
55-64	28	15.9
65-74	11	6.3
75 & older	1	0.6
Total no. of drivers (age known)	176	
Age not stated	5	
GRAND TOTAL	181	

Note: In 1987 bus accidents, 57.5 percent of the bus occupants who were killed or injured were not wearing safety belts, 5.0 percent were wearing safety belts, and safety belt use was unknown or unreported for 37.5 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	90	49.2
Turning left	29	15.8
Turning right	19	10.4
Backing	9	4.9
Stopped in traffic	17	9.3
Parked	4	2.2
Making U-turn	0	
Passing	1	
Changing lanes	2	
Merging	0	8.2
Parking	1	
Slowing-stopping	4	
Unattended moving vehicle	1	
Other	6	
Total no. of vehicles (action stated)	183	
Action not stated	3	
GRAND TOTAL	186	

Note: Total number of vehicles includes parked buses involved in accidents.

Iowa
Accidents Involving
School Buses

In 1987 there were:

0 school bus occupants killed
52 school bus occupants injured
186 accidents involving school buses
2 fatal accidents involving a school bus
44 personal injury accidents involving school buses
140 property damage accidents involving school buses

2 persons were killed in school bus accidents. Of this number, 2 were not school bus occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	6	3.2
Improper passing	2	1.1
Left of center, not passing	1	0.5
Failure to yield	9	4.8
Wrong way, one-way road	0	--
Speed too fast	3	1.6
Drag racing	0	--
Improper turn	4	2.2
Improper lane change	3	1.6
Following too close	1	0.5
Improper or no signal	1	0.5
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	3	1.6
Illegal or improper parking	0	--
Failure to have control	9	4.8
Lights not on	0	--
Inattentive/distracted	6	3.2
Confused/inexperienced	3	1.6
Vision obscured	15	8.1
Oversized vehicle	1	0.5
Other	14	7.5

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	180	98.9
Drinking - impaired	0	--
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	1	0.5
Apparently asleep	1	0.5
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	182	
Condition not stated	4	
GRAND TOTAL	186	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	118	64.1
Female	66	35.9
Total no. of drivers (sex known)	184	
Sex not stated	2	
GRAND TOTAL	186	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	0	--
19	1	0.5
20-24	9	4.9
25-34	38	20.9
35-44	44	24.2
45-54	32	17.6
55-64	47	25.8
65-74	10	5.5
75 & older	1	0.5
Total no. of drivers (age known)	182	
Age not stated	4	
GRAND TOTAL	186	

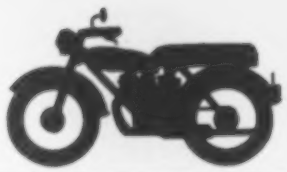
Note: In 1987 school bus accidents, 11.5 percent of the school bus occupants who were killed or injured were not wearing safety belts, 71.2 percent were wearing safety belts, and safety belt use was unknown or unreported for 17.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	100	53.2
Turning left	27	14.4
Turning right	8	4.3
Backing	7	3.7
Stopped in traffic	13	6.9
Parked	3	1.6
Making U-turn	0	16.0
Passing	3	
Changing lanes	6	
Merging	1	
Parking	3	
Slowing-stopping	14	
Unattended moving vehicle	0	
Other	3	
Total no. of vehicles (action stated)	188	
Action not stated	1	
GRAND TOTAL	189	

Note: Total number of vehicles includes parked school buses involved in accidents.

Iowa
Accidents Involving
Motorcycles



In 1987 there were:

- **57 motorcycle operators or passengers killed**
- **1,681 motorcycle operators or passengers injured**
- **1,743 accidents involving motorcycles**
  - **52 fatal accidents involving motorcycles**
  - **1,437 personal injury accidents involving motorcycles**
  - **254 property damage accidents involving motorcycles**

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	56	3.2
Improper passing	57	3.2
Left of center, not passing	24	1.4
Failure to yield	41	2.3
Wrong way, one-way road	1	0.1
Speed too fast	191	10.8
Drag racing	5	0.3
Improper turn	9	0.5
Improper lane change	8	0.5
Following too close	41	2.3
Improper or no signal	4	0.2
Disregarded R.R. signal	1	0.1
Disregarded warning signal	3	0.2
Reckless driving	44	2.5
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	444	25.1
Lights not on	7	0.4
Inattentive/distracted	69	3.9
Confused/inexperienced	74	4.2
Vision obscured	74	4.2
Oversized vehicle	0	--
Other	128	7.2

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

Operator Condition	Number of Operators	Percent
Apparently normal	1,372	83.7
Drinking - impaired	155	9.5
Drinking - not impaired	89	5.4
Drugs	1	0.1
Physical defect	2	0.1
Fatigued	7	0.4
Apparently asleep	3	0.2
Ill	0	--
Under medication	2	0.1
Infirmities of age	1	0.1
Other	7	0.4
Total no. of operators (condition stated)	1,639	
Condition not stated	133	
GRAND TOTAL	1,772	

Note: Total percent may not equal 100 due to rounding.

Operator Sex	Number of Operators	Percent
Male	1,714	97.8
Female	39	2.2
Total no. of operators (sex known)	1,753	
Sex not stated	19	
GRAND TOTAL	1,772	

Operator Age	Number of Operators	Percent
15 & younger	52	3.0
16	45	2.6
17	70	4.0
18	126	7.3
19	129	7.5
20-24	491	28.4
25-34	501	28.9
35-44	191	11.0
45-54	83	4.8
55-64	28	1.6
65-74	7	0.4
75 & older	8	0.5
Total no. of operators (age known)	1,731	
Age not stated	41	
GRAND TOTAL	1,772	

Note: In 1987 motorcycle accidents, 76.7 percent of the motorcycle riders who were killed or injured were not wearing helmets, 13.8 percent were wearing helmets, and helmet use was unknown or unreported for 9.5 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,354	76.6
Turning left	116	6.6
Turning right	73	4.1
Backing	5	0.3
Stopped in traffic	35	2.0
Parked	18	1.0
Making U-turn	10	
Passing	52	
Changing lanes	19	
Merging	9	9.4
Parking	1	
Slowing-stopping	34	
Unattended moving vehicle	0	
Other	41	
Total no. of vehicles (action stated)	1,767	
Action not stated	23	
GRAND TOTAL	1,790	

Motorcyclists

Deaths/Injuries

1987 Deaths and Injuries by Age (includes passengers and drivers)

	Deaths	Injuries	% Wearing Helmets
Under 14	1	40	9.8
14-15	2	57	11.9
16	2	46	10.4
17	2	76	14.1
18	5	118	10.6
19	2	120	14.8
20	1	102	12.6
21-24	13	333	13.0
25-34	17	461	8.6
35-44	9	162	18.7
45-54	3	64	41.8
55-64	0	26	53.8
65-74	0	9	33.3
75+	0	3	33.3
Unknown	0	64	7.8
Total	57	1,681	13.8

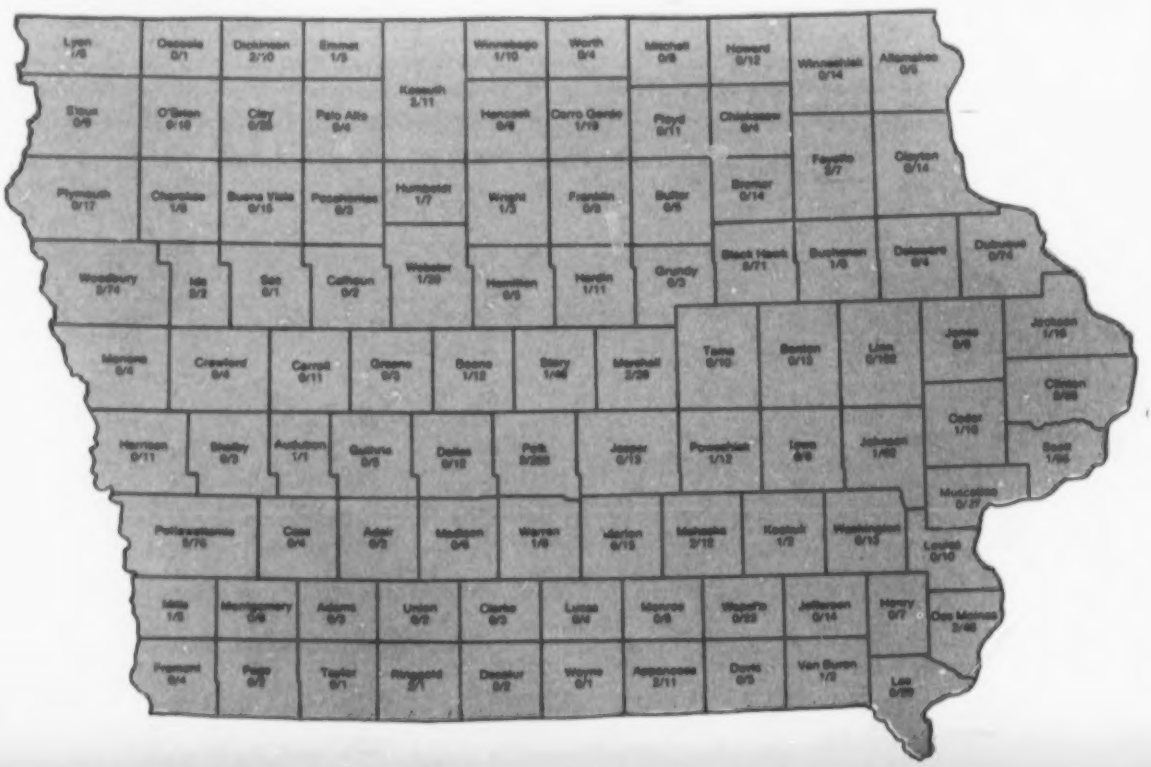
1987 Deaths and Injuries by Road Type

	Deaths		Injuries	
	Number Killed	% with Helmet	Number Injured	% with Helmet
Interstate	0	--	48	27.1
U.S. or state highways	16	18.8	543	19.3
County roads	25	8.0	280	16.8
City streets	16	0.0	791	8.6
Other	0	--	19	5.3
Total	57	8.8	1,681	13.9

Deaths and Injuries by Month

	Deaths		Injuries		
	1987	% of Total	1987	% of Total	% Helmet Use
January	0	--	6	0.4	16.7
February	0	--	30	1.8	10.0
March	0	--	86	5.1	20.9
April	9	15.8	171	10.2	13.3
May	11	19.3	251	14.9	15.6
June	7	12.3	303	18.0	10.3
July	8	14.0	300	17.8	13.0
August	11	19.3	223	13.3	12.0
September	7	12.3	195	11.6	14.4
October	4	7.0	79	4.7	14.5
November	0	--	27	1.6	37.0
December	0	--	10	0.6	18.2
Total	57		1,681		13.8

1987 Fatalities/Injuries



Iowa
Accidents Involving
Mopeds

In 1987 there were:

- **4 moped operators or passengers killed**
- **347 moped operators or passengers injured**
- **370 accidents involving mopeds**
  - **4 fatal accidents involving mopeds**
  - **342 personal injury accidents involving mopeds**
  - **24 property damage accidents involving mopeds**

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	21	5.4
Improper passing	6	1.5
Left of center, not passing	3	0.8
Failure to yield	25	6.4
Wrong way, one-way road	0	--
Speed too fast	13	3.4
Drag racing	0	--
Improper turn	8	2.1
Improper lane change	5	1.3
Following too close	12	3.1
Improper or no signal	3	0.8
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	1	0.3
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	70	18.0
Lights not on	5	1.3
Inattentive/distracted	39	10.1
Confused/inexperienced	59	15.2
Vision obscured	31	8.0
Oversized vehicle	0	--
Other	23	5.9

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

Operator Condition	Number of Operators	Percent
Apparently normal	360	97.0
Drinking - impaired	1	0.3
Drinking - not impaired	5	1.3
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	1	0.3
Infirmities of age	0	--
Other	4	1.1
Total no. of operators (condition stated)	371	
Condition not stated	17	
GRAND TOTAL	388	

Note: Total percent may not equal 100 due to rounding.

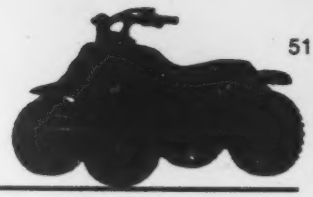
Operator Sex	Number of Operators	Percent
Male	302	78.0
Female	85	22.0
Total no. of operators (sex known)	387	
Sex not stated	1	
GRAND TOTAL	388	

Operator Age	Number of Operators	Percent
15 & younger	263	69.2
16	34	8.9
17	12	3.2
18	6	1.6
19	5	1.3
20-24	7	1.8
25-34	17	4.5
35-44	11	2.9
45-54	11	2.9
55-64	10	2.6
65-74	4	1.1
75 & older	0	--
Total no. of drivers (age known)	380	
Age not stated	8	
GRAND TOTAL	388	

Note: In 1987 moped accidents, 82.9 percent of the moped riders who were killed or injured were not wearing helmets, 7.1 percent were wearing helmets, and helmet use was unknown or unreported for 10.0 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	289	75.9
Turning left	44	11.5
Turning right	20	5.2
Backing	2	0.5
Stopped in traffic	2	0.5
Parked	0	--
Making U-turn	2	6.3
Passing	5	
Changing lanes	6	
Merging	2	
Parking	0	
Slowing-stopping	3	
Unattended moving vehicle	0	
Other	6	
Total no. of vehicles (action stated)	381	
Action not stated	7	
GRAND TOTAL	388	



Iowa
Accidents Involving
All Terrain Vehicles

In 1987 there were:

- **3 ATV operators or passengers killed**
- **33 ATV operators or passengers injured**
- **35 accidents involving ATVs**
  - **3 fatal accidents involving ATVs**
  - **28 personal injury accidents involving ATVs**
  - **4 property damage accidents involving ATVs**

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	3	8.3
Improper passing	0	--
Left of center, not passing	2	5.6
Failure to yield	3	8.3
Wrong way, one-way road	0	--
Speed too fast	4	11.1
Drag racing	0	--
Improper turn	0	--
Improper lane change	0	--
Following too close	0	--
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	2	5.6
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	8	22.2
Lights not on	2	5.6
Inattentive/distracted	0	--
Confused/inexperienced	4	11.1
Vision obscured	5	13.9
Oversized vehicle	0	--
Other	9	25.0

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

Operator Condition	Number of Operators	Percent
Apparently normal	29	87.9
Drinking - impaired	4	12.1
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of operators (condition stated)	33	
Condition not stated	3	
GRAND TOTAL	36	

Note: Total percent may not equal 100 due to rounding.

Operator Sex	Number of Operators	Percent
Male	31	88.6
Female	4	11.4
Total no. of operators (sex known)	35	
Sex not stated	1	
GRAND TOTAL	36	

Operator Age	Number of Operators	Percent
15 & younger	11	33.3
16	5	15.2
17	4	12.1
18	2	6.1
19	1	3.0
20-24	5	15.2
25-34	3	9.1
35-44	1	3.0
45-54	0	--
55-64	0	--
65-74	1	3.0
75 & older	0	--
Total no. of drivers (age known)	33	
Age not stated	3	
GRAND TOTAL	36	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	26	74.3
Turning left	4	11.4
Turning right	0	--
Backing	0	--
Stopped in traffic	1	2.9
Parked	0	--
Making U-turn	2	
Passing	0	
Changing lanes	0	
Merging	1	11.4
Parking	0	
Slowing-stopping	0	
Unattended moving vehicle	0	
Other	1	
Total no. of vehicles (action stated)	35	
Action not stated	1	
GRAND TOTAL	36	

Iowa
Accidents Involving
Bicycles

In 1987 there were:

4 bicycle riders killed in bicycle/motor vehicle accidents

777 bicycle riders injured in bicycle/motor vehicle accidents

820 accidents involving bicycles/motor vehicles

4 fatal accidents involving bicycles/motor vehicles

773 personal injury accidents involving bicycles/motor vehicles

43 property damage accidents involving bicycles/motor vehicles

The Driver Of Motor Vehicle Involved

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	44	5.5
Improper passing	10	1.2
Left of center, not passing	7	0.9
Failure to yield	87	10.8
Wrong way, one-way road	0	--
Speed too fast	15	1.9
Drag racing	0	--
Improper turn	10	1.2
Improper lane change	3	0.4
Following too close	6	0.7
Improper or no signal	4	0.5
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	8	1.0
Improper backing	3	0.4
Illegal or improper parking	0	--
Failure to have control	13	1.6
Lights not on	2	0.2
Inattentive/distracted	40	5.0
Confused/inexperienced	6	0.7
Vision obscured	136	16.9
Oversized vehicle	0	--
Other	28	3.5

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	736	96.5
Drinking - impaired	8	1.0
Drinking - not impaired	7	0.9
Drugs	1	0.1
Physical defect	1	0.1
Fatigued	1	0.1
Apparently asleep	0	--
Ill	1	0.1
Under medication	1	0.1
Infirmities of age	5	0.7
Other	2	0.3
Total no. of drivers (condition stated)	763	
Condition not stated	40	
GRAND TOTAL	803	

Note: Total percent may not equal 100 due to rounding.

The Bicyclist

Bicyclist Sex	Killed	Injured
Male	2	559
Female	2	156
Total no. of bicyclists (sex known)	4	715
Sex not stated	0	62
GRAND TOTAL	4	777

Bicyclist Age	Killed	Injured
0-4	1	25
5-9	0	192
10-14	0	236
15-19	2	132
20-24	0	63
25-44	0	77
45-64	1	20
65 & older	0	7
Total no. of bicyclists (age known)	4	752
Age not stated	0	25
GRAND TOTAL	4	777

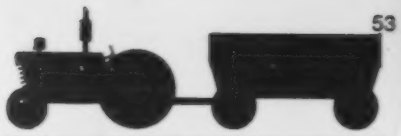
The Driver

Driver Age	Number of Drivers	Percent
15 & younger	13	1.7
16	24	3.2
17	30	4.0
18	32	4.3
19	23	3.1
20-24	111	14.8
25-34	173	23.0
35-44	113	15.0
45-54	78	10.4
55-64	73	9.7
65-74	48	6.4
75 & older	33	4.4
Total no. of drivers (age known)	751	
Age not stated	52	
GRAND TOTAL	803	

The Motor Vehicle

Vehicle Action	Number of Vehicles	Percent
Going straight	529	65.7
Turning left	125	15.5
Turning right	74	9.2
Backing	17	2.1
Stopped in traffic	9	1.1
Parked	16	2.0
Making U-turn	0	
Passing	18	
Changing lanes	2	
Merging	3	4.3
Parking	2	
Slowing-stopping	7	
Unattended moving vehicle	0	
Other	3	
Total no. of vehicles (action stated)	805	
Action not stated	14	
GRAND TOTAL	819	

Iowa
Accidents Involving
Farm Vehicles



In 1987 there were:

3 farm vehicle occupants killed
41 farm vehicle occupants injured
296 accidents involving farm vehicles
9 fatal accidents involving farm vehicles
104 personal injury accidents involving farm vehicles
183 property damage accidents involving farm vehicles

9 persons were killed in farm vehicle accidents. Of this number, 6 (66.7 percent) were not farm vehicle occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	4	1.4
Improper passing	4	1.4
Left of center, not passing	11	3.7
Failure to yield	30	10.2
Wrong way, one-way road	0	--
Speed too fast	3	1.0
Drag racing	0	--
Improper turn	6	2.0
Improper lane change	2	0.7
Following too close	2	0.7
Improper or no signal	28	9.5
Disregarded R.R. signal	0	--
Disregarded warning signal	1	0.3
Reckless driving	0	--
Improper backing	1	0.3
Illegal or improper parking	0	--
Failure to have control	13	4.4
Lights not on	2	0.7
Inattentive/distracted	11	3.7
Confused/inexperienced	5	1.7
Vision obscured	39	13.2
Oversized vehicle	11	3.7
Other	34	11.5

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	278	97.9
Drinking - impaired	0	--
Drinking - not impaired	1	0.4
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	2	0.7
Other	3	1.1
Total no. of drivers	284	
Condition not stated	11	
GRAND TOTAL	295	

Note: Total percent may not equal 100 due to rounding.

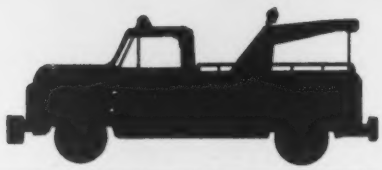
Driver Sex	Number of Drivers	Percent
Male	280	97.2
Female	8	2.8
Total no. of drivers (sex known)	288	
Sex not stated	7	
GRAND TOTAL	295	

Driver Age	Number of Drivers	Percent
15 & younger	12	4.2
16	9	3.2
17	4	1.4
18	2	0.7
19	7	2.5
20-24	30	10.6
25-34	70	24.7
35-44	40	14.1
45-54	39	13.8
55-64	40	14.1
65-74	22	7.8
75 & older	8	2.8
Total no. of drivers (age known)	283	
Age not stated	12	
GRAND TOTAL	295	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	141	48.6
Turning left	111	38.3
Turning right	8	2.8
Backing	3	1.0
Stopped in traffic	4	1.4
Parked	5	1.7
Making U-turn	1	6.2
Passing	3	
Changing lanes	3	
Merging	1	
Parking	0	
Slowing-stopping	0	
Unattended moving vehicle	0	
Other	10	
Total no. of vehicles (action stated)	290	
Action not stated	10	
GRAND TOTAL	300	

Iowa
Accidents Involving
Tow/Maintenance/ Construction Vehicles



In 1987 there were:

0 tow/maintenance/construction vehicle occupants killed
36 tow/maintenance/construction vehicle occupants injured
393 accidents involving tow/maintenance/construction vehicles
- **1 fatal accident involving tow/maintenance/ construction vehicles**
- **96 personal injury accidents involving tow/ maintenance/construction vehicles**
- **296 property damage accidents involving tow/ maintenance/construction vehicles**

1 person was killed in a tow/maintenance/construction vehicle accident. Of this number 1 (100.0 percent) was not a tow/ maintenance/construction vehicle occupant.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	17	4.6
Improper passing	2	0.5
Left of center, not passing	3	0.8
Failure to yield	22	6.0
Wrong way, one-way road	1	0.3
Speed too fast	6	1.6
Drag racing	0	--
Improper turn	6	1.6
Improper lane change	3	0.8
Following too close	5	1.4
Improper or no signal	1	0.3
Disregarded R.R. signal	1	0.3
Disregarded warning signal	0	--
Reckless driving	1	0.3
Improper backing	21	5.7
Illegal or improper parking	1	0.3
Failure to have control	25	6.8
Lights not on	0	--
Inattentive/distracted	18	4.9
Confused/inexperienced	4	1.1
Vision obscured	37	10.1
Oversized vehicle	9	2.5
Other	32	8.7

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	346	97.2
Drinking - impaired	2	0.6
Drinking - not impaired	1	0.3
Drugs	2	0.6
Physical defect	3	0.8
Fatigued	1	0.3
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	1	0.3
Total no. of drivers (condition stated)	356	
Condition not stated	10	
GRAND TOTAL	366	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	345	97.2
Female	10	2.8
Total no. of drivers (sex known)	355	
Sex not stated	11	
GRAND TOTAL	366	

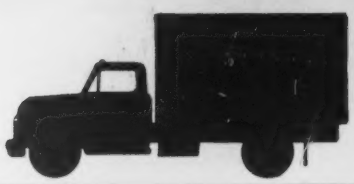
Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	2	0.6
18	4	1.2
19	5	1.4
20-24	36	10.4
25-34	106	30.6
35-44	88	25.4
45-54	54	15.6
55-64	44	12.7
65-74	3	0.9
75 & older	4	1.2
Total no. of drivers (age known)	346	
Age not stated	20	
GRAND TOTAL	366	

Note: In 1987 tow/maintenance/construction accidents, 36.1 percent of the tow/ maintenance/construction vehicle occupants who were killed or injured were not wearing safety belts, 22.2 percent were wearing safety belts, and safety belt use was unknown or unreported for 41.7 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	203	51.5
Turning left	46	11.7
Turning right	21	5.3
Backing	33	8.4
Stopped in traffic	18	4.6
Parked	32	8.1
Making U-turn	3	10.4
Passing	3	
Changing lanes	3	
Merging	2	
Parking	1	
Slowing-stopping	5	
Unattended moving vehicle	1	
Other	23	
Total no. of vehicles (action stated)	394	
Action not stated	5	
GRAND TOTAL	399	

Note: Total number of vehicles includes parked tow/maintenance/construction vehicles involved in accidents.



Iowa
Accidents Involving
Straight Trucks

In 1987 there were:

1 straight truck occupant killed
156 straight truck occupants injured
1,268 accidents involving straight trucks
14 fatal accidents involving straight trucks
358 personal injury accidents involving straight trucks
896 property damage accidents involving straight trucks

15 persons were killed in straight truck accidents. Of this number 14 (93.3 percent) were not straight truck occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	79	6.5
Improper passing	21	1.7
Left of center, not passing	13	1.1
Failure to yield	50	4.1
Wrong way, one-way road	1	0.1
Speed too fast	38	3.1
Drag racing	0	--
Improper turn	31	2.5
Improper lane change	32	2.6
Following too close	35	2.9
Improper or no signal	16	1.3
Disregarded R.R. signal	0	--
Disregarded warning signal	4	0.3
Reckless driving	2	0.2
Improper backing	65	5.3
Illegal or improper parking	3	0.2
Failure to have control	139	11.4
Lights not on	3	0.2
Inattentive/distracted	66	5.4
Confused/inexperienced	16	1.3
Vision obscured	127	10.4
Oversized vehicle	7	0.6
Other	103	8.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	1,160	97.5
Drinking - impaired	11	0.9
Drinking - not impaired	4	0.3
Drugs	1	0.1
Physical defect	2	0.2
Fatigued	4	0.3
Apparently asleep	5	0.4
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	3	0.3
Total no. of drivers (condition stated)	1,190	
Condition not stated	34	
GRAND TOTAL	1,224	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	1,167	97.7
Female	27	2.3
Total no. of drivers (sex known)	1,194	
Sex not stated	30	
GRAND TOTAL	1,224	

Driver Age	Number of Drivers	Percent
15 & younger	2	0.2
16	6	0.5
17	6	0.5
18	8	0.7
19	13	1.1
20-24	199	16.9
25-34	410	34.9
35-44	200	17.0
45-54	162	13.8
55-64	117	9.9
65-74	47	4.0
75 & older	6	0.5
Total no. of drivers (age known)	1,176	
Age not stated	48	
GRAND TOTAL	1,224	

Note: In 1987 straight truck accidents, 40.1 percent of the straight truck occupants who were killed or injured were not wearing safety belts, 28.0 percent were wearing safety belts, and safety belt use was unknown or unreported for 31.8 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	704	54.9
Turning left	128	10.0
Turning right	85	6.6
Backing	99	7.7
Stopped in traffic	39	3.0
Parked	62	4.8
Making U-turn	1	
Passing	23	
Changing lanes	35	
Merging	11	12.9
Parking	4	
Slowing-stopping	45	
Unattended moving vehicle	7	
Other	39	
Total no. of vehicles (action stated)	1,282	
Action not stated	11	
GRAND TOTAL	1,293	

Note: Total number of vehicles includes parked straight trucks involved in accidents.

Iowa
Accidents Involving
Truck Tractors

In 1987 there were:

0 truck tractor occupants killed
24 truck tractor occupants injured
195 accidents involving truck tractors
5 fatal accidents involving truck tractors
51 personal injury accidents involving truck tractors
139 property damage accidents involving truck tractors

5 persons were killed in truck tractor accidents. Of this number, 5 (100.0 percent) were not truck tractor occupants.

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	6	3.2
Improper passing	1	0.5
Left of center, not passing	4	2.1
Failure to yield	5	2.7
Wrong way, one-way road	0	--
Speed too fast	3	1.6
Drag racing	0	--
Improper turn	3	1.6
Improper lane change	13	7.0
Following too close	8	4.3
Improper or no signal	0	--
Disregarded R.R. signal	1	0.5
Disregarded warning signal	0	--
Reckless driving	1	0.5
Improper backing	5	2.7
Illegal or improper parking	0	--
Failure to have control	23	12.3
Lights not on	0	--
Inattentive/distracted	8	4.3
Confused/inexperienced	4	2.1
Vision obscured	15	8.0
Oversized vehicle	3	1.6
Other	15	8.0

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	175	95.6
Drinking - impaired	3	1.6
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	1	0.5
Apparently asleep	3	1.6
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	1	0.5
Total no. of drivers (condition stated)	183	
Condition not stated	4	
GRAND TOTAL	187	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	177	98.3
Female	3	1.7
Total no. of drivers (sex known)	180	
Sex not stated	7	
GRAND TOTAL	187	

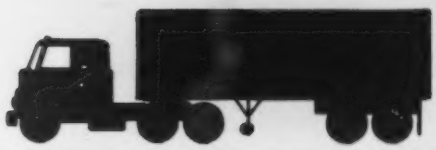
Driver Age	Number of Drivers	Percent
15 & younger	1	0.6
16	0	--
17	0	--
18	2	1.1
19	1	0.6
20-24	21	11.9
25-34	66	37.3
35-44	36	20.3
45-54	29	16.4
55-64	18	10.2
65-74	3	1.7
75 & older	0	--
Total no. of drivers (age known)	177	
Age not stated	10	
GRAND TOTAL	187	

Note: In 1987 truck tractor accidents, 45.8 percent of the truck tractor occupants who were killed or injured were not wearing safety belts. 16.7 percent were wearing safety belts, and safety belt use was unknown or unreported for 37.5 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	124	62.3
Turning left	17	8.5
Turning right	14	7.0
Backing	8	4.0
Stopped in traffic	0	--
Parked	11	5.5
Making U-turn	1	12.6
Passing	3	
Changing lanes	11	
Merging	0	
Parking	0	
Slowing-stopping	5	
Unattended moving vehicle	2	
Other	3	
Total no. of vehicles (action stated)	199	
Action not stated	1	
GRAND TOTAL	200	

Note: Total number of vehicles includes parked truck tractors involved in accidents.



Iowa
Accidents Involving
Truck Tractors With Trailers

In 1987 there were:

8 occupants of truck tractors with trailers killed
278 occupants of truck tractors with trailers injured
2,251 accidents involving truck tractors with trailers
49 fatal accidents involving truck tractors with trailers
579 personal injury accidents involving truck tractors with trailers
1,623 property damage accidents involving truck tractors with trailers

56 persons were killed in truck tractor with trailers accidents. Of this number, 46 (82.1 percent) were not occupants of truck tractors with trailers.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	70	3.1
Improper passing	48	2.1
Left of center, not passing	20	0.9
Failure to yield	64	2.8
Wrong way, one-way road	1	*
Speed too fast	75	3.3
Drag racing	0	--
Improper turn	107	4.7
Improper lane change	120	5.3
Following too close	47	2.1
Improper or no signal	8	0.4
Disregarded R.R. signal	2	0.1
Disregarded warning signal	17	0.7
Reckless driving	3	0.1
Improper backing	67	3.0
Illegal or improper parking	9	0.4
Failure to have control	278	12.2
Lights not on	3	0.1
Inattentive/distracted	85	3.7
Confused/inexperienced	32	1.4
Vision obscured	200	8.8
Oversized vehicle	42	1.9
Other	146	6.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

*Less than one-tenth of one percent.

Driver Condition	Number of Drivers	Percent
Apparently normal	2,116	96.3
Drinking - impaired	14	0.6
Drinking - not impaired	3	0.1
Drugs	0	--
Physical defect	1	*
Fatigued	11	0.5
Apparently asleep	44	2.0
Ill	3	0.1
Under medication	0	--
Infirmities of age	0	--
Other	6	0.3
Total no. of drivers (condition stated)	2,198	
Condition not stated	72	
GRAND TOTAL	2,270	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	2,154	97.8
Female	48	2.2
Total no. of drivers (sex known)	2,202	
Sex not stated	68	
GRAND TOTAL	2,270	

Driver Age	Number of Drivers	Percent
15 & younger	3	0.1
16	2	0.1
17	1	*
18	4	0.2
19	10	0.5
20-24	187	8.7
25-34	749	35.0
35-44	539	25.2
45-54	412	19.2
55-64	224	10.5
65-74	9	0.4
75 & older	1	*
Total no. of drivers (age known)	2,141	
Age not stated	129	
GRAND TOTAL	2,270	

Note: In 1987 truck tractor with trailer accidents, 33.7 percent of the truck tractor with trailer occupants who were killed or injured were not wearing safety belts, 37.2 percent were wearing safety belts, and safety belt use was unknown or unreported for 29.2 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,331	58.0
Turning left	175	7.6
Turning right	266	11.6
Backing	104	4.5
Stopped in traffic	38	1.7
Parked	56	2.4
Making U-turn	7	
Passing	78	
Changing lanes	112	
Merging	23	14.1
Parking	9	
Slowing-stopping	59	
Unattended moving vehicle	2	
Other	33	
Total no. of vehicles (action stated)	2,293	
Action not stated	35	
GRAND TOTAL	2,328	

Note: Total number of vehicles includes parked truck tractors with trailers involved in accidents.

Iowa Accidents Involving Trains *

In 1987 there were:

- **13 persons killed in train/motor vehicle accidents**
- **78 persons injured in train/motor vehicle accidents**
- **137 train/motor vehicle accidents involving 137 trains and 137 vehicles**
  - **11 fatal accidents involving trains/motor vehicles**
  - **59 personal injury accidents involving trains/motor vehicles**
  - **67 property damage accidents involving trains/motor vehicles**

(All figures apply to train/motor vehicle accidents at public crossings. Private crossing accident information is not included. All persons killed were motor vehicle drivers, riders or occupants.)

Driver Sex	Number of Drivers	Percent
Male	99	72.3
Female	34	24.8
Total no. of drivers (sex known)	133	
Sex not stated	4	2.9
GRAND TOTAL	137	

The Driver Of Motor Vehicle Involved

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
None apparent	15	11.0
Ran traffic control	8	5.3
Failure to yield	9	6.6
Speed too fast	7	5.1
Improper or no signal	1	0.7
Disregarded R.R. signal	40	29.2
Disregarded warning signal	3	2.2
Illegal or improper passing	1	0.7
Failure to have control	4	2.9
Inattentive/distracted	15	11.0
Vision obscured	2	1.5
Other	10	7.3
Unknown	6	4.4
Not stated	16	11.7

Driver Age	Number of Drivers	Percent
15 & younger	5	3.7
16	7	5.1
17	5	3.7
18	4	2.9
19	6	4.4
20-24	31	22.6
25-34	37	27.0
35-44	14	10.2
45-54	12	8.8
55-64	11	8.0
65-74	3	2.2
75 & older	2	1.5
Total no. of drivers (age known)	137	
Age not stated	0	
GRAND TOTAL	137	

Note: In 1987 train/motor vehicle accidents, 42.9 percent of the motor vehicle occupants who were killed or injured were not wearing safety belts. 36.9 percent were wearing safety belts, and safety belt use was unknown or unreported for 20.2 percent of those killed or injured.

Driver Condition	Number of Drivers	Percent
Apparently normal	95	69.3
Drinking - impaired	10	7.3
Drinking - not impaired	9	6.6
Drugs	0	--
Physical defect	0	--
Fatigued	1	0.7
Apparently asleep	1	0.7
Ill	0	--
Under medication	0	--
Infirmities of age	1	0.7
Other	3	2.2
Total no. of drivers (condition stated)	120	
Condition not stated	17	12.4
GRAND TOTAL	137	

Note: Total percent may not equal 100 due to rounding.

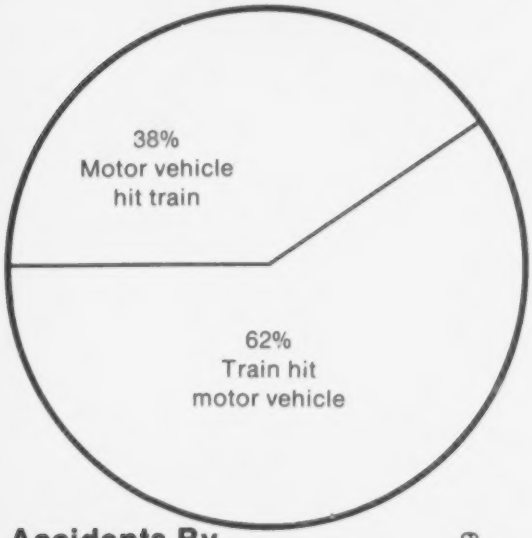
*Information provided by Rail & Water Division, Iowa DOT, Ames.

The Motor Vehicle

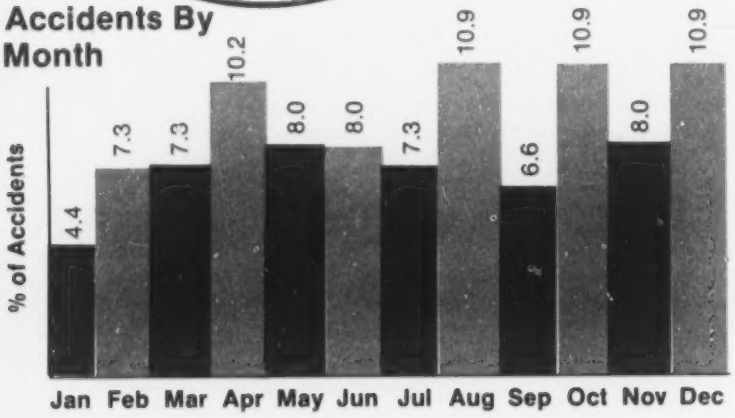
Vehicle Action	Number of Accidents	Percent
Did not stop	87	63.5
Drove around/through gate	7	5.1
Stopped-proceded	3	2.2
Other	17	12.4
Action unknown/not stated	23	16.8
GRAND TOTAL	137	

Trains

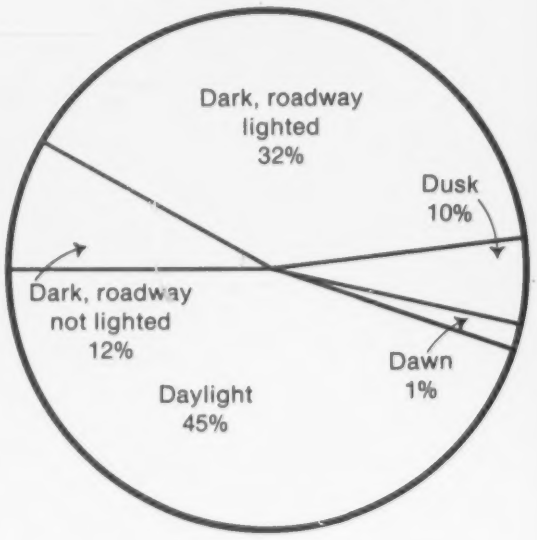
Circumstances



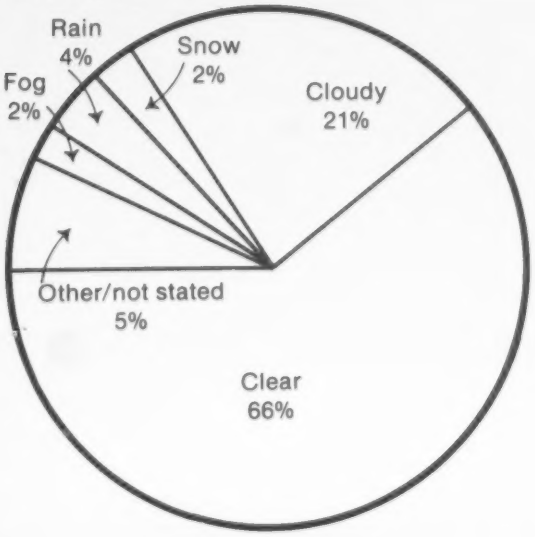
Accidents By Month



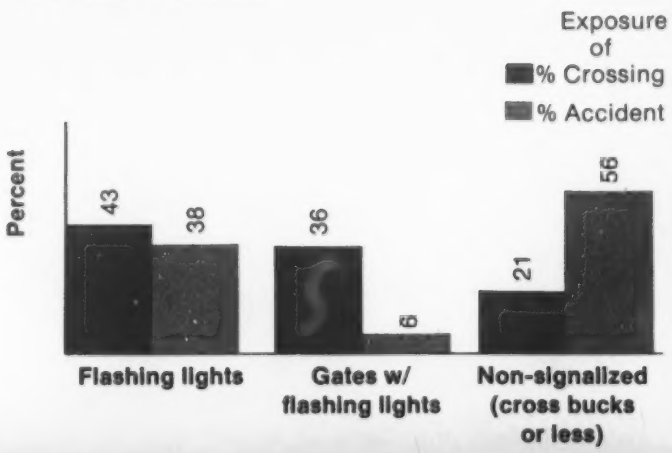
Light Conditions



Weather



Traffic Control



Note: Total percent may not equal 100 due to rounding